

Luminaire Photograph



Light Output Ratio:	80.3%	
Luminaire Power:	17.76 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-6

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

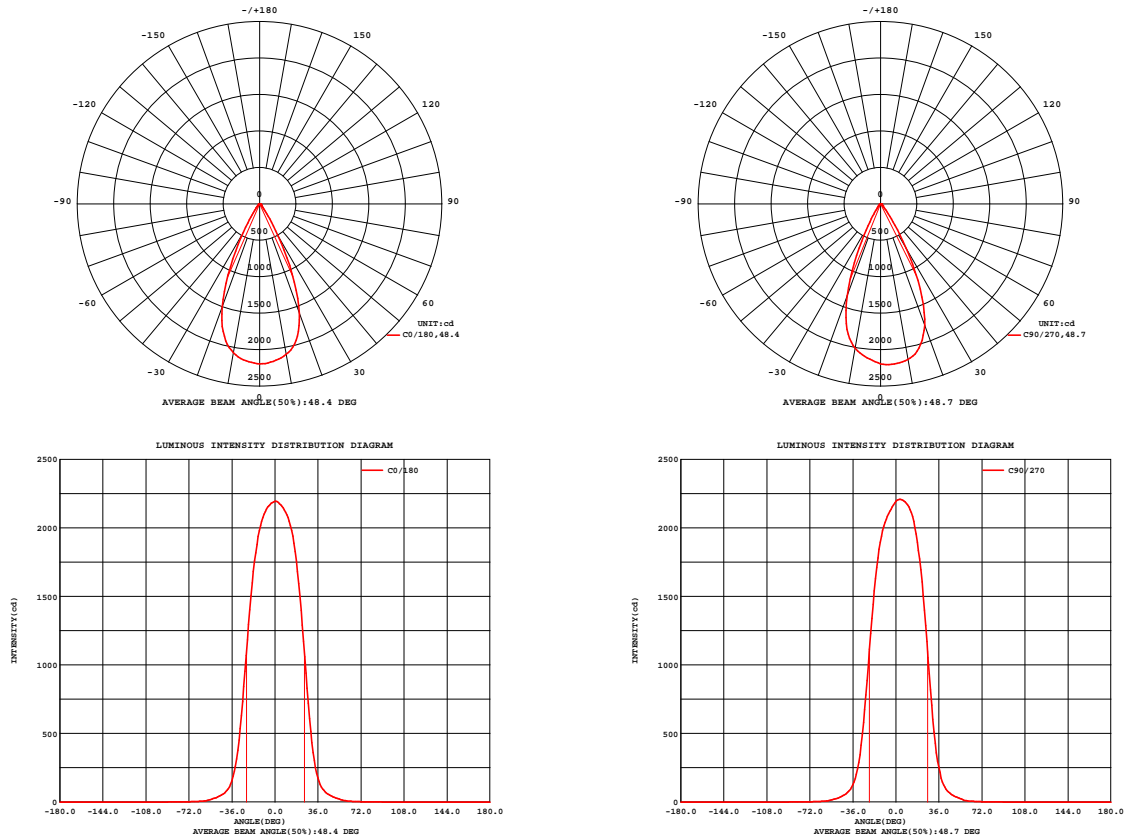


Fig. C0/C180

Fig. C90/C270

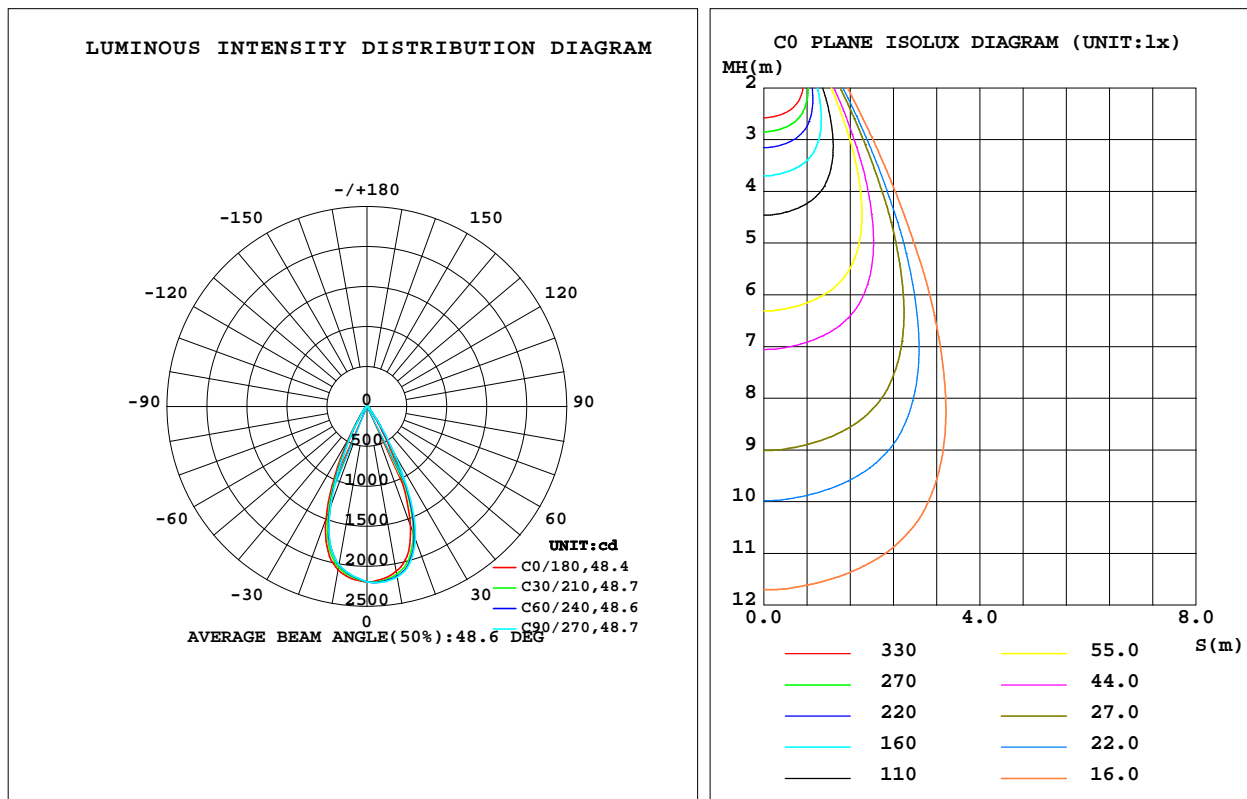
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2023-3-6

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30G1000-A-83 Ra: 90
LENS: PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.90V I:0.1488A P:17.760W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm					
NAME: 2218.143-LEA-14			TYPE:		WEIGHT:
SPEC.:3000K			DIM.:		SERIAL No.:2303060236
MFR.: RISE			SUR.:0.003737385m2		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 79.13 lm/W
MODEL	Bridgelux	I _{max} (cd)	2206	S/MH(C0/180)	0.71	
NOMINAL POWER(W)	18	LOR(%)	80.3	S/MH(C90/270)	0.67	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1405.3	η UP,DN(C0-180)	0.0,44.1	
NOMINAL FLUX(lm)	1749.31	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,36.3	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	120	η down(%)	80.3	CIBSE SHR MAX	0.75	



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Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
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ZONAL FLUX DIAGRAM

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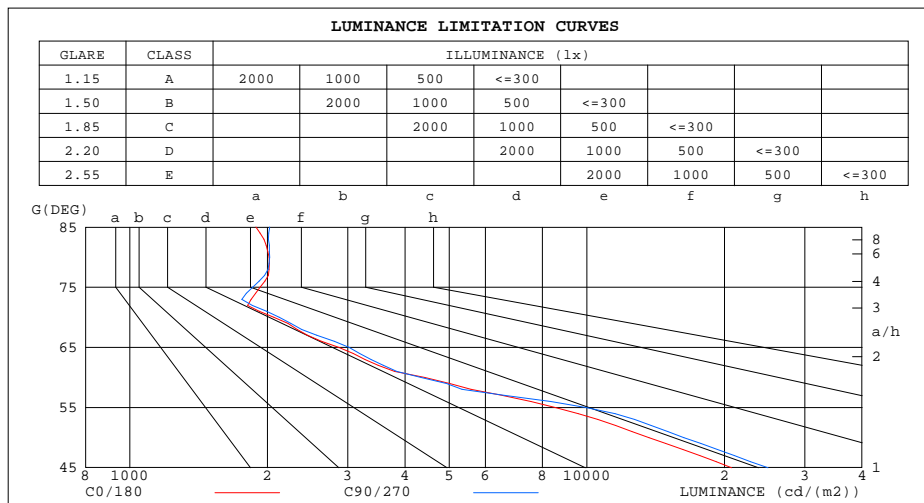
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2096	2144	2166	2135	2074	2030	2012	2051	0- 10	204.2	204.2	14.5,11.7
20	1594	1715	1772	1676	1503	1384	1338	1474	10- 20	525.9	730.1	52,41.7
30	515.7	660.5	707.2	594.7	451.6	371.5	345.1	428.1	20- 30	461.7	1192	84.8,68.1
40	95.03	118.3	125.9	105.6	84.54	76.18	73.63	84.25	30- 40	147.4	1339	95.3,76.6
50	32.88	38.39	39.18	35.01	29.35	25.77	24.50	28.52	40- 50	43.35	1383	98.4,79
60	8.278	9.387	8.112	7.971	6.622	5.963	5.941	6.721	50- 60	15.86	1398	99.5,79.9
70	2.646	2.927	2.717	2.626	2.335	2.112	2.117	2.342	60- 70	4.365	1403	99.8,80.2
80	1.310	1.391	1.313	1.248	1.186	1.072	1.062	1.182	70- 80	1.895	1405	100,80.3
90	0	0	0	0	0	0	0	0	80- 90	0.6023	1405	100,80.3
100	0	0	0	0	0	0	0	0	90-100	0	1405	100,80.3
110	0	0	0	0	0	0	0	0	100-110	0	1405	100,80.3
120	0	0	0	0	0	0	0	0	110-120	0	1405	100,80.3
130	0	0	0	0	0	0	0	0	120-130	0	1405	100,80.3
140	0	0	0	0	0	0	0	0	130-140	0	1405	100,80.3
150	0	0	0	0	0	0	0	0	140-150	0	1405	100,80.3
160	0	0	0	0	0	0	0	0	150-160	0	1405	100,80.3
170	0	0	0	0	0	0	0	0	160-170	0	1405	100,80.3
180	0	0	0	0	0	0	0	0	170-180	0	1405	100,80.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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30minutes warm-up

LUMINANCE LIMITATION CURVES

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NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060236
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	1887	2025
80	2016	2022
75	1928	1859
70	2067	2125
65	2867	3019
60	4425	4340
55	8543	9976
50	13670	16306
45	20725	24898

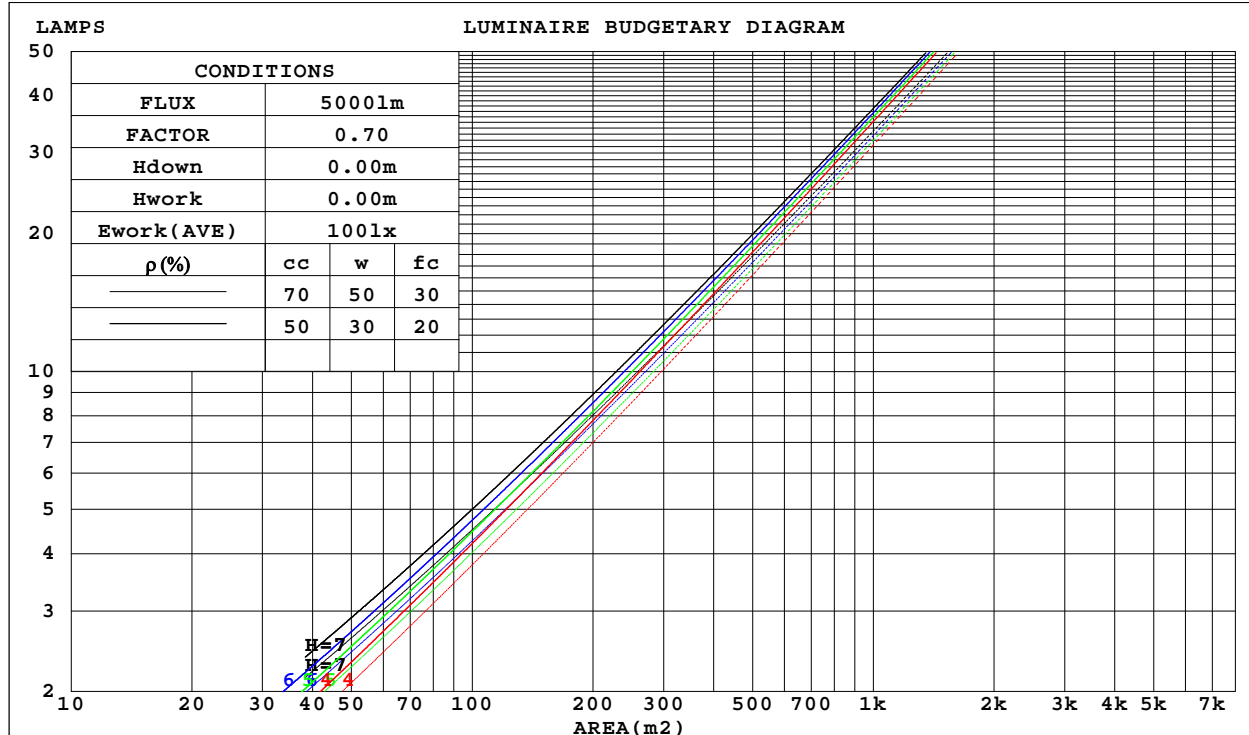
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.96	.96	.96	.93	.93	.93	.89	.89	.89	.85	.85	.85	.82	.82	.82	.80
1.0	.90	.88	.86	.88	.86	.85	.85	.83	.82	.82	.81	.80	.79	.78	.77	.76
2.0	.84	.81	.79	.83	.80	.78	.80	.78	.76	.78	.76	.74	.76	.74	.73	.72
3.0	.79	.75	.73	.78	.75	.72	.76	.73	.71	.74	.72	.70	.72	.70	.69	.67
4.0	.75	.71	.68	.74	.70	.67	.72	.69	.66	.70	.68	.66	.69	.67	.65	.64
5.0	.71	.66	.63	.70	.66	.63	.68	.65	.62	.67	.64	.62	.66	.63	.61	.60
6.0	.67	.63	.59	.66	.62	.59	.65	.62	.59	.64	.61	.58	.63	.60	.58	.57
7.0	.64	.59	.56	.63	.59	.56	.62	.58	.56	.61	.58	.55	.60	.57	.55	.54
8.0	.60	.56	.53	.60	.56	.53	.59	.55	.53	.58	.55	.53	.58	.55	.52	.51
9.0	.58	.53	.50	.57	.53	.50	.57	.53	.50	.56	.52	.50	.55	.52	.50	.49
10.0	.55	.51	.48	.55	.51	.48	.54	.50	.48	.53	.50	.48	.53	.50	.48	.47



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WEC AND CCEC

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NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060236
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.132	.075	.024	.127	.072	.023	.117	.067	.021	.108	.062	.020	.099	.057	.019	
2.0	.125	.069	.021	.121	.067	.021	.113	.063	.019	.105	.059	.018	.098	.055	.017	
3.0	.119	.063	.019	.115	.062	.019	.108	.059	.018	.101	.056	.017	.095	.053	.016	
4.0	.113	.059	.017	.110	.057	.017	.103	.055	.016	.098	.053	.016	.092	.050	.015	
5.0	.107	.055	.016	.105	.054	.016	.099	.052	.015	.094	.050	.015	.090	.048	.014	
6.0	.102	.051	.015	.100	.050	.015	.095	.049	.014	.091	.047	.014	.087	.046	.014	
7.0	.098	.048	.014	.096	.048	.014	.092	.046	.013	.088	.045	.013	.084	.044	.013	
8.0	.094	.046	.013	.092	.045	.013	.088	.044	.013	.085	.043	.012	.081	.042	.012	
9.0	.090	.043	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	.079	.040	.012	
10.0	.086	.041	.011	.085	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.153	.153	.153	.131	.131	.131	.089	.089	.089	.051	.051	.051	.016	.016	.016	
1.0	.137	.126	.117	.117	.109	.101	.080	.075	.070	.046	.043	.041	.015	.014	.013	
2.0	.124	.106	.092	.106	.092	.079	.073	.063	.055	.042	.037	.032	.013	.012	.011	
3.0	.113	.091	.074	.097	.079	.064	.067	.055	.045	.038	.032	.026	.012	.010	.009	
4.0	.104	.079	.060	.090	.068	.052	.062	.048	.037	.036	.028	.022	.011	.009	.007	
5.0	.097	.070	.049	.083	.060	.043	.057	.042	.030	.033	.025	.018	.011	.008	.006	
6.0	.091	.062	.041	.078	.054	.036	.054	.038	.026	.031	.022	.015	.010	.007	.005	
7.0	.085	.056	.035	.073	.048	.031	.051	.034	.022	.029	.020	.013	.010	.007	.004	
8.0	.081	.051	.030	.069	.044	.026	.048	.031	.019	.028	.018	.011	.009	.006	.004	
9.0	.077	.046	.026	.066	.040	.023	.046	.028	.016	.027	.017	.010	.009	.005	.003	
10.0	.073	.043	.023	.063	.037	.020	.044	.026	.014	.025	.015	.008	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K						DIM.:		SERIAL No.:2303060236			
MFR.: RISE						SUR.:0.003737385m2		Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H	2H	17.6	18.4	17.8	18.6	18.7	18.7	19.5	18.9	19.7	19.8
	3H	17.4	18.2	17.7	18.4	18.6	18.5	19.3	18.8	19.5	19.7
	4H	17.4	18.1	17.6	18.3	18.5	18.4	19.2	18.7	19.4	19.6
	6H	17.3	18.0	17.6	18.2	18.5	18.4	19.1	18.7	19.3	19.6
	8H	17.3	17.9	17.6	18.2	18.4	18.3	19.0	18.6	19.3	19.5
	12H	17.2	17.9	17.5	18.1	18.4	18.3	18.9	18.6	19.2	19.5
4H	2H	17.4	18.1	17.6	18.3	18.6	18.5	19.2	18.7	19.4	19.6
	3H	17.2	17.9	17.6	18.2	18.4	18.3	19.0	18.6	19.2	19.5
	4H	17.2	17.8	17.5	18.1	18.4	18.2	18.8	18.6	19.1	19.4
	6H	17.1	17.6	17.5	18.0	18.3	18.2	18.7	18.5	19.0	19.4
	8H	17.1	17.6	17.5	17.9	18.3	18.1	18.6	18.5	19.0	19.3
	12H	17.0	17.5	17.4	17.8	18.2	18.1	18.5	18.5	18.9	19.3
8H	4H	17.0	17.5	17.4	17.9	18.2	18.1	18.6	18.5	18.9	19.3
	6H	17.0	17.4	17.4	17.8	18.2	18.0	18.4	18.5	18.8	19.2
	8H	17.0	17.3	17.4	17.7	18.2	18.0	18.3	18.4	18.8	19.2
	12H	16.9	17.2	17.4	17.7	18.1	18.0	18.3	18.4	18.7	19.2
12H	4H	17.0	17.4	17.4	17.8	18.2	18.0	18.5	18.5	18.9	19.2
	6H	16.9	17.3	17.4	17.7	18.1	18.0	18.3	18.4	18.7	19.2
	8H	16.9	17.2	17.4	17.6	18.1	17.9	18.2	18.4	18.7	19.2
Variations with the observer position at spacings:											
S = 1.0H		+ 2.3 / - 5.6					+ 3.5 / - 6.5				
1.5H		+ 3.5 / - 3.3					+ 5.0 / - 4.2				
2.0H		+ 3.9 / - 4.7					+ 4.3 / - 5.3				

CIE Pub.117, 1749 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.9$)
Area: 0.00373738 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

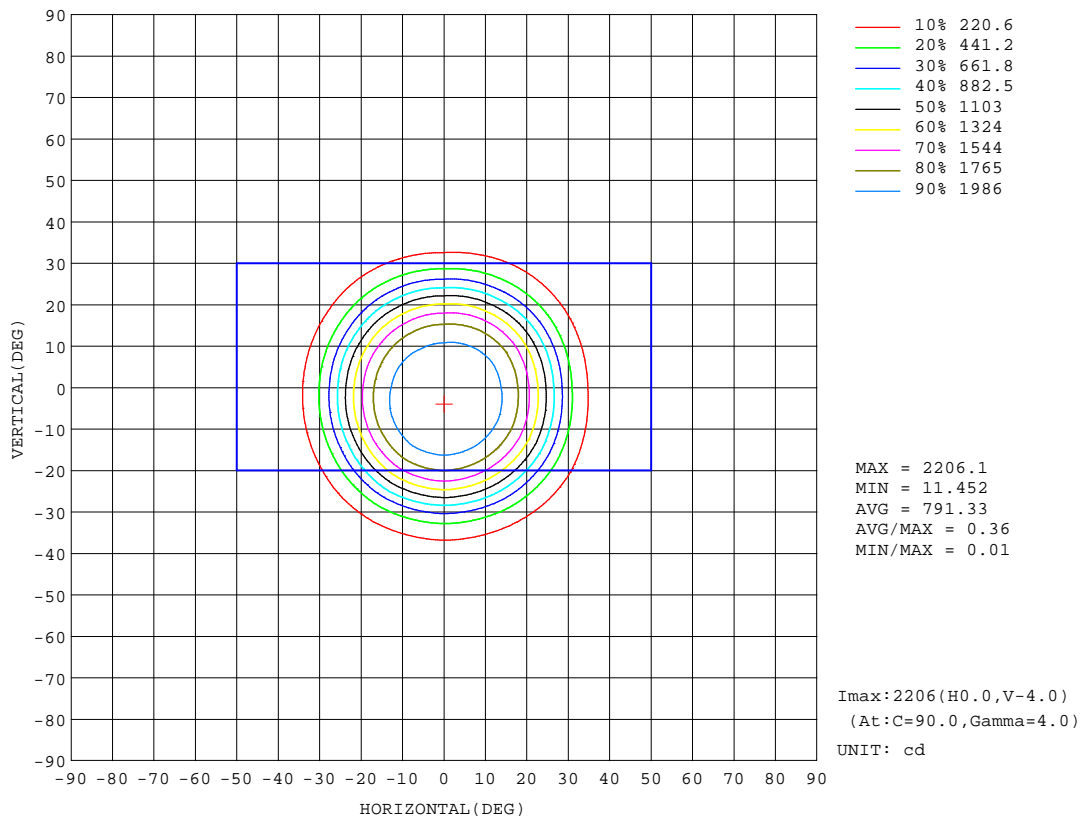
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	66	63	71	66	63	70	66	63	60
0.80	77	73	70	76	72	70	76	72	69	66
1.00	80	76	73	80	76	73	79	76	73	70
1.25	84	80	77	83	79	77	81	78	76	73
1.50	86	82	79	85	81	79	83	80	78	75
2.00	88	84	82	86	84	81	84	82	80	76
2.50	89	86	84	88	85	83	85	83	81	77
3.00	90	87	85	89	86	84	86	84	83	78
4.00	92	90	88	90	88	87	87	86	85	79
5.00	93	91	89	91	89	88	88	87	86	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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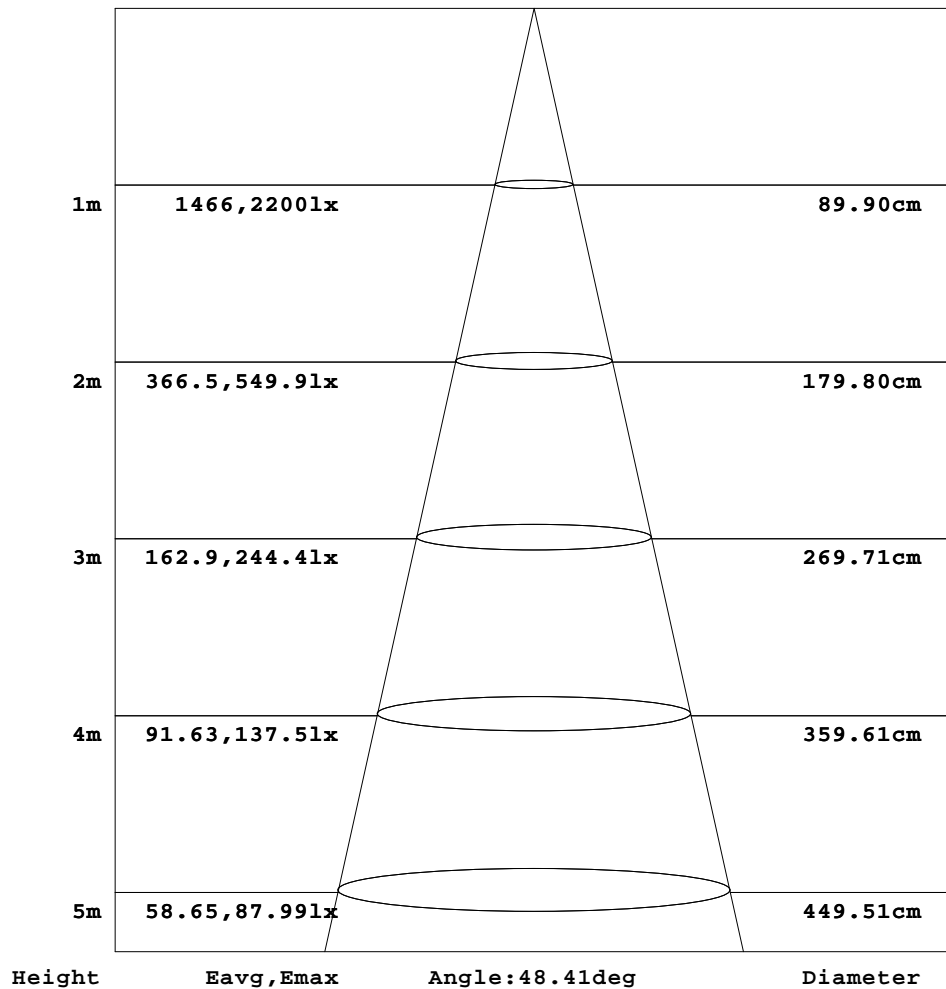
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Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

AAI Figure

Test:U:119.90V I:0.1488A P:17.760W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060236
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

Flux out:1002 lm



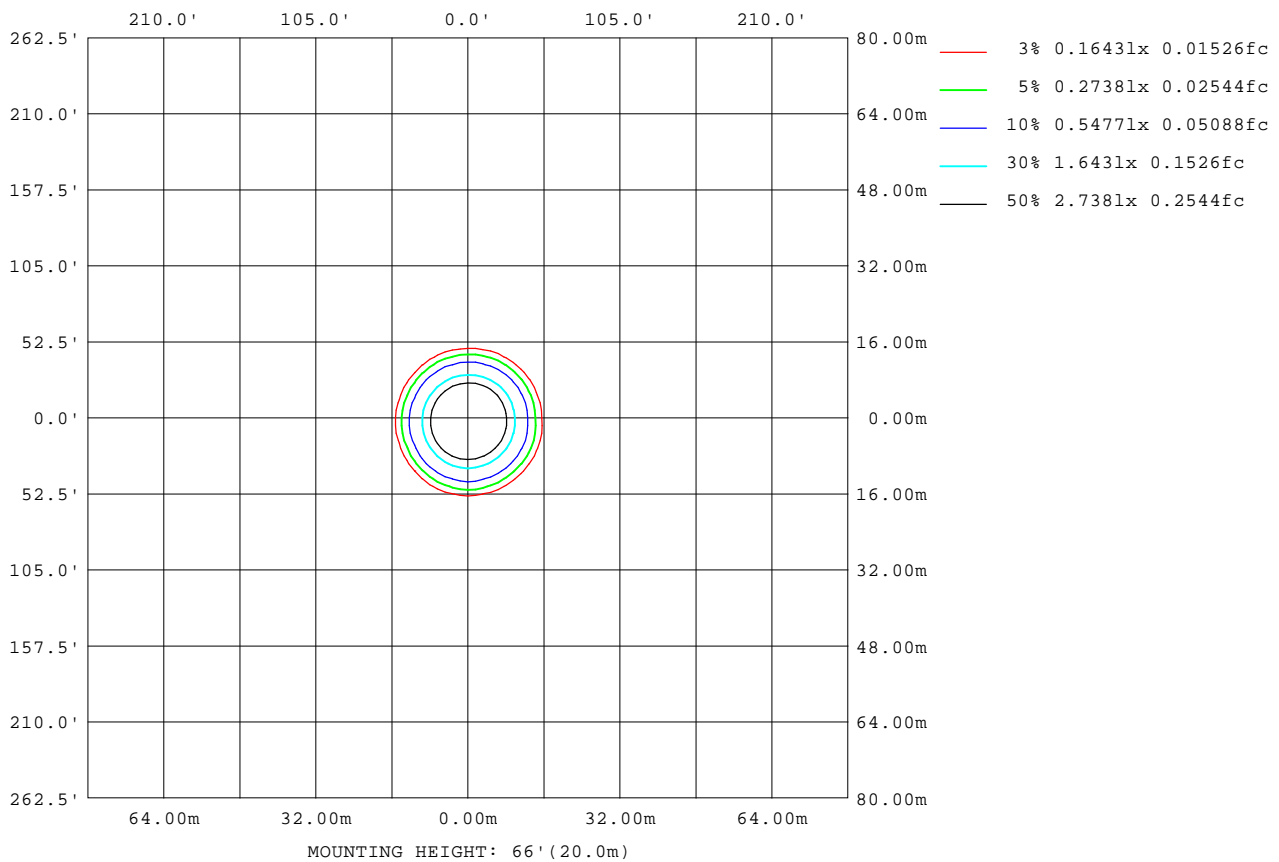
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-6

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:119.90V I:0.1488A P:17.760W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3lx1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060236
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-6

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LED Avg.L Report

Test:U:119.90V I:0.1488A P:17.760W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060236
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

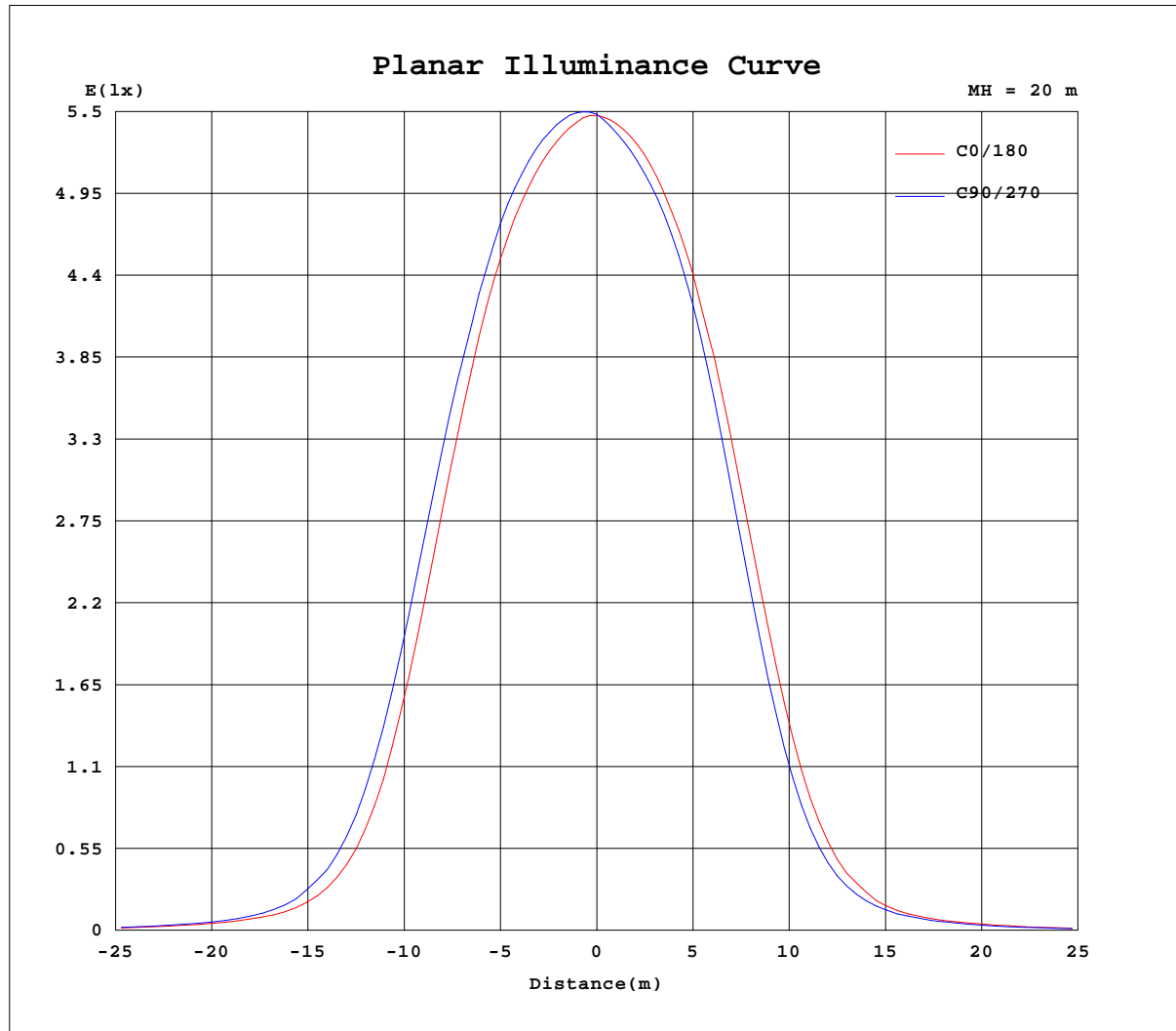
AvgL	cd/m2
L_0~180(65)av	2665
L_0~180(75)av	1879
L_0~180(85)av	1761
L_90~270(65)av	2595
L_90~270(75)av	1820
L_90~270(85)av	1630
L_45(65)av	2693
L_45(75)av	1866
L_45(85)av	1627

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-6

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2023-3-6

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRE-30G1000-A-83 Ra: 90
 LENS: PM-1082B 36R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.90V I:0.1488A P:17.760W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060236
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2193	2193	2193	2193	2193	2193	2193	2193	2193	2193	2193	2193						
5	2167	2188	2200	2204	2196	2179	2161	2140	2125	2121	2130	2149						
10	2096	2131	2156	2166	2154	2115	2074	2046	2014	2012	2034	2068						
15	1939	1995	2030	2045	2026	1953	1877	1828	1787	1781	1825	1892						
20	1594	1693	1738	1772	1734	1618	1503	1414	1353	1338	1423	1525						
25	1058	1196	1253	1288	1235	1086	954	861	800	780	860	977						
30	516	632	689	707	655	535	452	385	358	345	394	462						
35	209	263	286	298	271	218	188	157	147	146	166	192						
40	95.0	114	123	126	116	95.2	84.5	78.8	73.6	73.6	79.5	89.0						
45	54.8	62.3	65.6	65.8	62.6	54.5	50.0	45.4	43.3	42.1	46.2	51.3						
50	32.9	37.4	39.3	39.2	37.3	32.7	29.3	26.4	25.1	24.5	26.9	30.2						
55	18.3	21.4	22.2	21.4	20.6	17.6	15.5	13.6	12.7	12.6	14.1	16.7						
60	8.28	8.94	9.83	8.11	8.62	7.32	6.62	6.09	5.83	5.94	6.26	7.18						
65	4.53	5.01	5.07	4.77	4.77	4.25	3.89	3.55	3.44	3.43	3.70	4.15						
70	2.65	2.90	2.96	2.72	2.77	2.48	2.34	2.13	2.09	2.12	2.22	2.46						
75	1.87	1.89	1.89	1.80	1.84	1.78	1.77	1.72	1.71	1.72	1.77	1.83						
80	1.31	1.38	1.40	1.31	1.32	1.18	1.19	1.09	1.06	1.06	1.13	1.24						
85	0.62	0.72	0.75	0.66	0.53	0.42	0.53	0.43	0.40	0.40	0.46	0.56						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG
C Interval: 30.0DEG
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