

Luminaire Photograph



Light Output Ratio:	79.0%	
Luminaire Power:	17.71 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	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-1082A 24R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

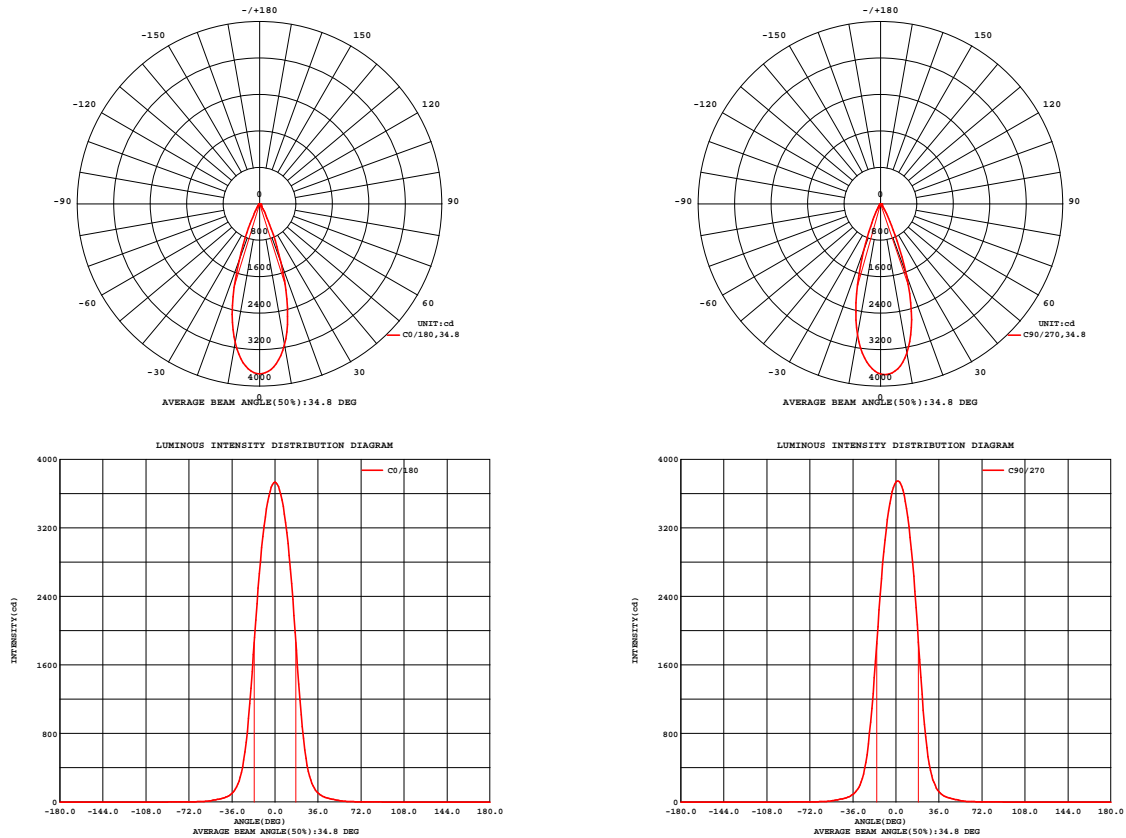


Fig. C0/C180

Fig. C90/C270

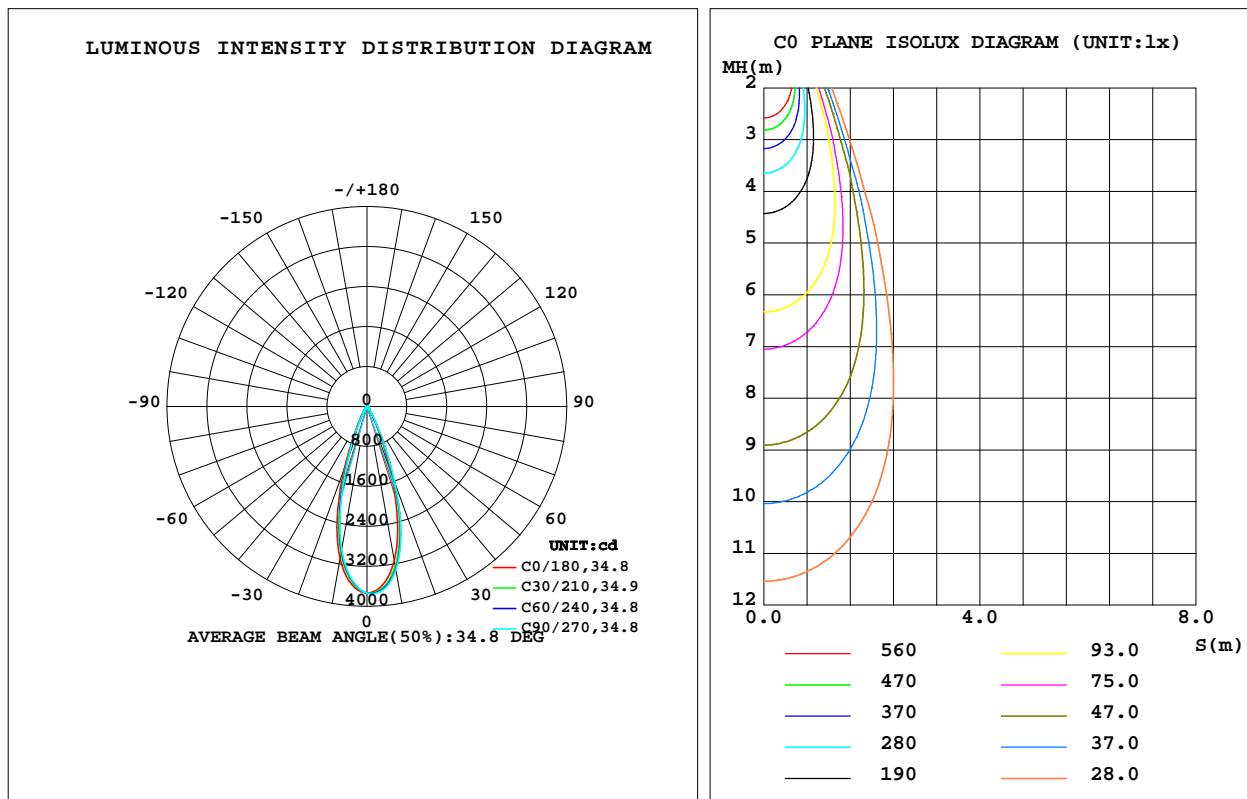
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 30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.91V I:0.1484A P:17.708W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060234
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.01 lm/W			
MODEL	Bridgelux	I _{max} (cd)	3744	S/MH(C0/180)	0.55
NOMINAL POWER(W)	18	LOR(%)	79.0	S/MH(C90/270)	0.51
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1381.4	η UP,DN(C0-180)	0.0,42.6
NOMINAL FLUX(lm)	1749.31	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,36.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	79.0	CIBSE SHR MAX	0.55



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ZONAL FLUX DIAGRAM

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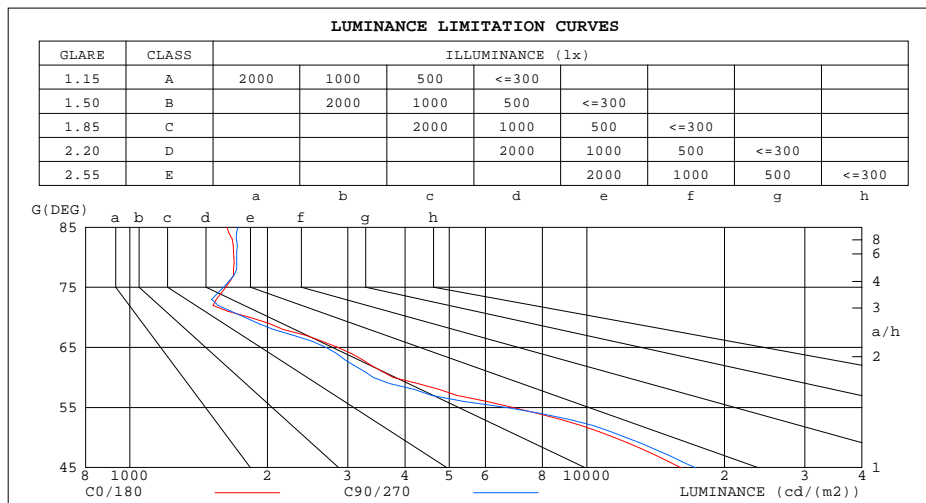
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3143	3277	3323	3221	3100	2974	2920	3014	0- 10	327.3	327.3	23.7,18.7
20	1375	1580	1663	1488	1329	1156	1091	1213	10- 20	625.5	952.8	69,54.5
30	255.8	288.9	308.9	276.2	245.8	210.6	200.2	230.6	20- 30	296.5	1249	90.4,71.4
40	66.78	71.05	74.63	68.58	62.48	56.95	56.99	61.93	30- 40	80.49	1330	96.3,76
50	27.67	29.17	29.33	26.93	25.07	23.17	22.80	25.50	40- 50	32.59	1362	98.6,77.9
60	7.054	7.166	6.375	6.668	6.280	5.964	6.041	6.581	50- 60	12.82	1375	99.6,78.6
70	2.339	2.524	2.281	2.223	1.995	1.780	1.749	1.996	60- 70	4.091	1379	99.8,78.8
80	1.098	1.179	1.113	1.004	1.007	0.8971	0.8860	0.9742	70- 80	1.591	1381	100,78.9
90	0	0	0	0	0	0	0	0	80- 90	0.5058	1381	100,79
100	0	0	0	0	0	0	0	0	90-100	0	1381	100,79
110	0	0	0	0	0	0	0	0	100-110	0	1381	100,79
120	0	0	0	0	0	0	0	0	110-120	0	1381	100,79
130	0	0	0	0	0	0	0	0	120-130	0	1381	100,79
140	0	0	0	0	0	0	0	0	130-140	0	1381	100,79
150	0	0	0	0	0	0	0	0	140-150	0	1381	100,79
160	0	0	0	0	0	0	0	0	150-160	0	1381	100,79
170	0	0	0	0	0	0	0	0	160-170	0	1381	100,79
180	0	0	0	0	0	0	0	0	170-180	0	1381	100,79
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 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
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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.:2303060234
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	1631	1726
80	1690	1715
75	1621	1604
70	1828	1784
65	2854	2688
60	3771	3411
55	6904	6691
50	11503	12205
45	16065	17291

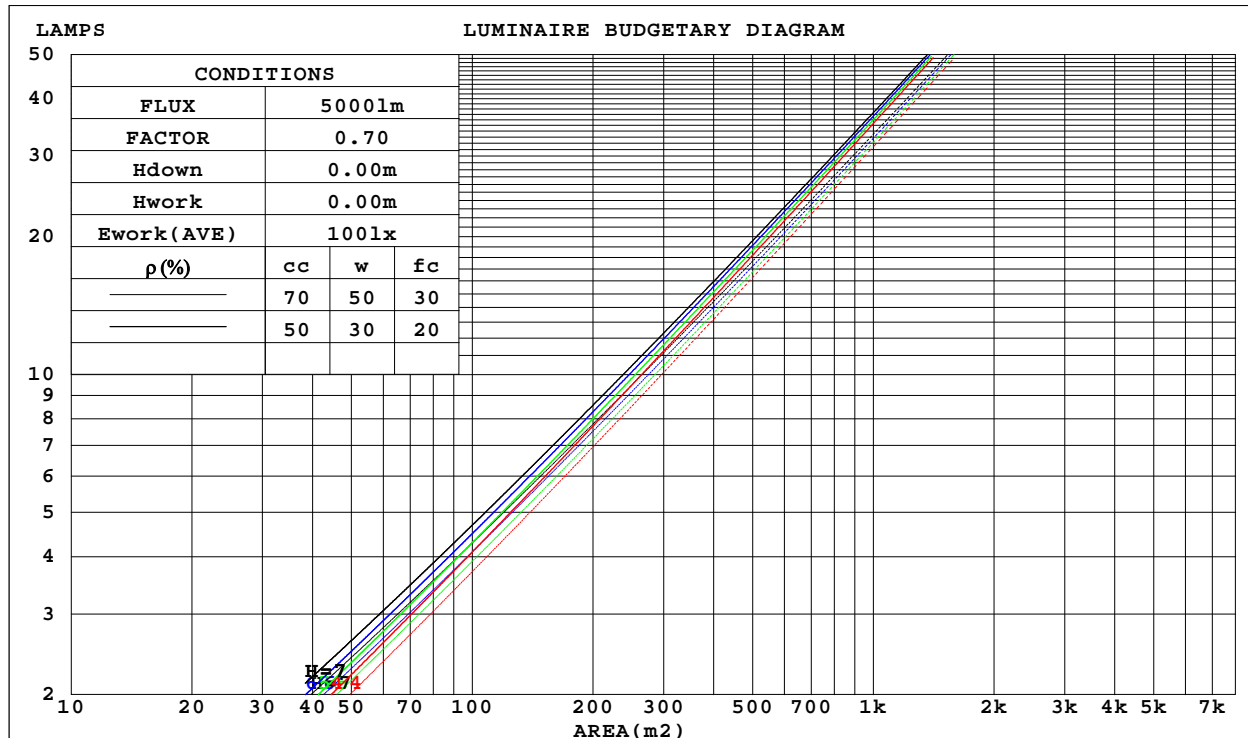
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.94	.94	.94	.92	.92	.92	.88	.88	.88	.84	.84	.84	.81	.81	.81	.79
1.0	.89	.87	.85	.87	.85	.84	.84	.83	.81	.81	.80	.79	.78	.77	.77	.75
2.0	.84	.81	.79	.82	.80	.78	.80	.78	.76	.78	.76	.75	.76	.74	.73	.72
3.0	.80	.76	.74	.79	.76	.73	.77	.74	.72	.75	.73	.71	.73	.71	.70	.69
4.0	.76	.72	.70	.75	.72	.69	.73	.71	.68	.72	.70	.68	.70	.69	.67	.66
5.0	.72	.69	.66	.72	.68	.66	.70	.67	.65	.69	.67	.65	.68	.66	.64	.63
6.0	.69	.66	.63	.69	.65	.63	.68	.65	.62	.67	.64	.62	.66	.63	.62	.61
7.0	.67	.63	.60	.66	.63	.60	.65	.62	.60	.64	.61	.59	.63	.61	.59	.58
8.0	.64	.60	.58	.64	.60	.58	.63	.60	.57	.62	.59	.57	.61	.59	.57	.56
9.0	.62	.58	.55	.61	.58	.55	.61	.57	.55	.60	.57	.55	.59	.57	.55	.54
10.0	.59	.56	.53	.59	.56	.53	.59	.55	.53	.58	.55	.53	.57	.55	.53	.52



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2303060234
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	.119	.068	.021	.114	.065	.021	.104	.060	.019	.095	.055	.018	.087	.050	.016	
2.0	.112	.061	.019	.107	.059	.018	.099	.055	.017	.092	.051	.016	.085	.048	.015	
3.0	.105	.056	.017	.101	.054	.016	.094	.051	.016	.088	.048	.015	.082	.046	.014	
4.0	.099	.051	.015	.096	.050	.015	.090	.048	.014	.085	.045	.014	.080	.043	.013	
5.0	.094	.048	.014	.091	.047	.014	.086	.045	.013	.081	.043	.013	.077	.041	.012	
6.0	.089	.045	.013	.087	.044	.013	.082	.042	.012	.078	.041	.012	.074	.039	.012	
7.0	.085	.042	.012	.083	.041	.012	.079	.040	.012	.075	.039	.011	.072	.037	.011	
8.0	.081	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011	.070	.036	.010	
9.0	.078	.038	.010	.076	.037	.010	.073	.036	.010	.070	.035	.010	.068	.034	.010	
10.0	.074	.036	.010	.073	.035	.010	.070	.034	.010	.068	.034	.010	.065	.033	.009	

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	.150	.150	.150	.129	.129	.129	.088	.088	.088	.050	.050	.050	.016	.016	.016	
1.0	.134	.124	.116	.114	.107	.100	.078	.073	.069	.045	.043	.040	.014	.014	.013	
2.0	.120	.105	.092	.103	.090	.079	.071	.062	.055	.041	.036	.032	.013	.012	.011	
3.0	.109	.090	.074	.093	.077	.064	.064	.054	.045	.037	.031	.027	.012	.010	.009	
4.0	.100	.078	.061	.086	.067	.053	.059	.047	.037	.034	.027	.022	.011	.009	.007	
5.0	.092	.068	.050	.079	.059	.044	.054	.041	.031	.032	.024	.018	.010	.008	.006	
6.0	.085	.060	.042	.073	.052	.037	.051	.037	.026	.029	.022	.016	.009	.007	.005	
7.0	.080	.054	.036	.069	.047	.031	.047	.033	.022	.028	.019	.013	.009	.006	.004	
8.0	.075	.049	.031	.064	.042	.027	.045	.030	.019	.026	.018	.011	.008	.006	.004	
9.0	.070	.045	.027	.061	.039	.024	.042	.027	.017	.025	.016	.010	.008	.005	.003	
10.0	.067	.041	.024	.058	.035	.021	.040	.025	.015	.023	.015	.009	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K						DIM.:		SERIAL No.:2303060234			
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	14.0	14.7	14.2	14.9	15.1	14.4	15.1	14.6	15.3	15.4	
	3H	13.9	14.6	14.2	14.8	15.0	14.3	15.0	14.5	15.2	15.4
	4H	13.9	14.5	14.1	14.7	15.0	14.2	14.9	14.5	15.1	15.3
	6H	13.8	14.4	14.1	14.7	14.9	14.2	14.8	14.5	15.0	15.3
	8H	13.8	14.4	14.1	14.6	14.9	14.2	14.8	14.5	15.0	15.3
	12H	13.8	14.3	14.1	14.6	14.9	14.1	14.7	14.4	15.0	15.2
4H	2H	13.9	14.5	14.1	14.7	14.9	14.2	14.9	14.5	15.1	15.3
	3H	13.8	14.4	14.1	14.6	14.9	14.2	14.7	14.5	15.0	15.3
	4H	13.8	14.3	14.1	14.6	14.9	14.1	14.6	14.5	14.9	15.2
	6H	13.7	14.2	14.1	14.5	14.9	14.1	14.5	14.4	14.9	15.2
	8H	13.7	14.1	14.1	14.5	14.8	14.0	14.5	14.4	14.8	15.2
	12H	13.7	14.1	14.1	14.4	14.8	14.0	14.4	14.4	14.8	15.2
8H	4H	13.6	14.1	14.0	14.4	14.8	14.0	14.4	14.4	14.8	15.1
	6H	13.6	14.0	14.0	14.4	14.8	14.0	14.3	14.4	14.7	15.1
	8H	13.6	13.9	14.1	14.3	14.8	14.0	14.3	14.4	14.7	15.1
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12H	4H	13.6	14.0	14.0	14.4	14.7	13.9	14.3	14.3	14.7	15.1
	6H	13.6	13.9	14.0	14.3	14.7	13.9	14.2	14.4	14.7	15.1
	8H	13.6	13.8	14.0	14.3	14.8	13.9	14.2	14.4	14.6	15.1
Variations with the observer position at spacings:											
S = 1.0H	+ 2.0 / - 4.3					+ 2.6 / - 4.8					
1.5H	+ 2.7 / - 2.8					+ 3.4 / - 3.1					
2.0H	+ 3.6 / - 3.8					+ 3.9 / - 4.2					

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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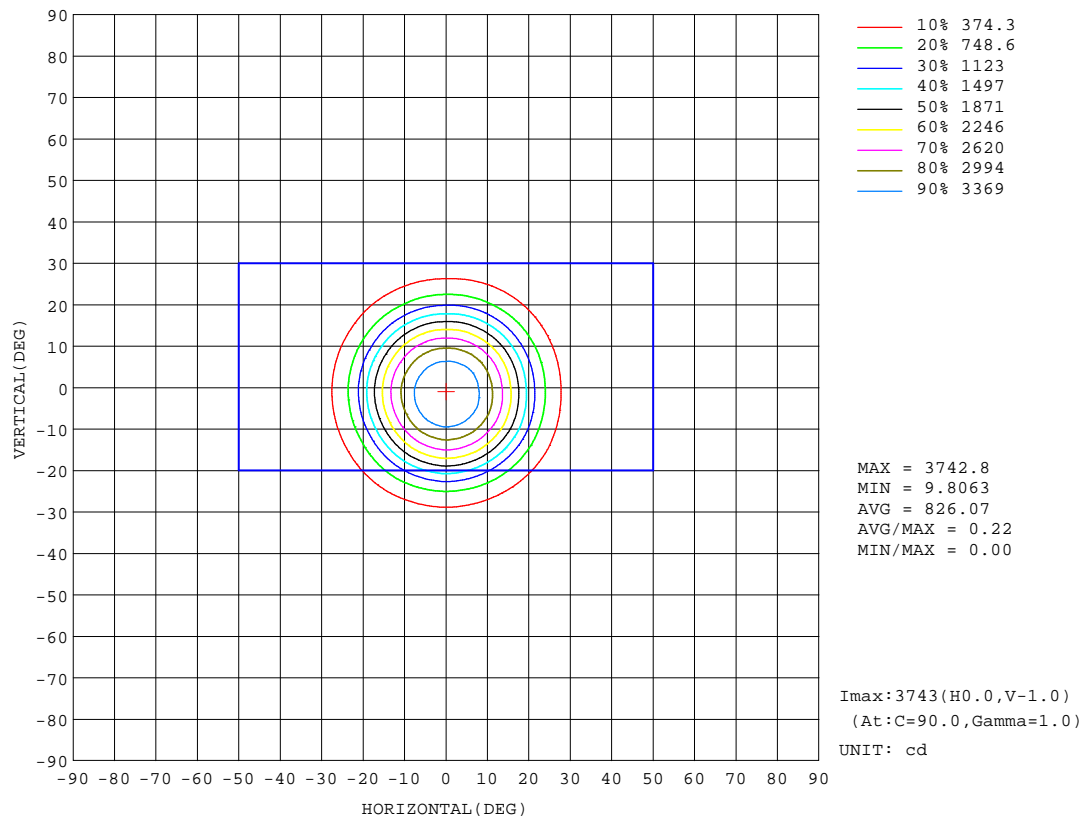
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	66	63	70	66	63	69	65	63	60
0.80	76	72	69	76	72	69	75	71	69	66
1.00	79	75	73	79	75	72	78	75	72	69
1.25	82	78	76	82	78	76	80	77	75	72
1.50	84	81	78	83	80	78	82	79	77	74
2.00	86	83	81	85	82	80	83	81	79	75
2.50	87	85	82	86	84	82	84	82	80	76
3.00	89	86	84	87	85	83	85	83	81	77
4.00	90	88	86	89	87	85	86	84	83	78
5.00	91	89	88	89	88	87	86	85	84	78
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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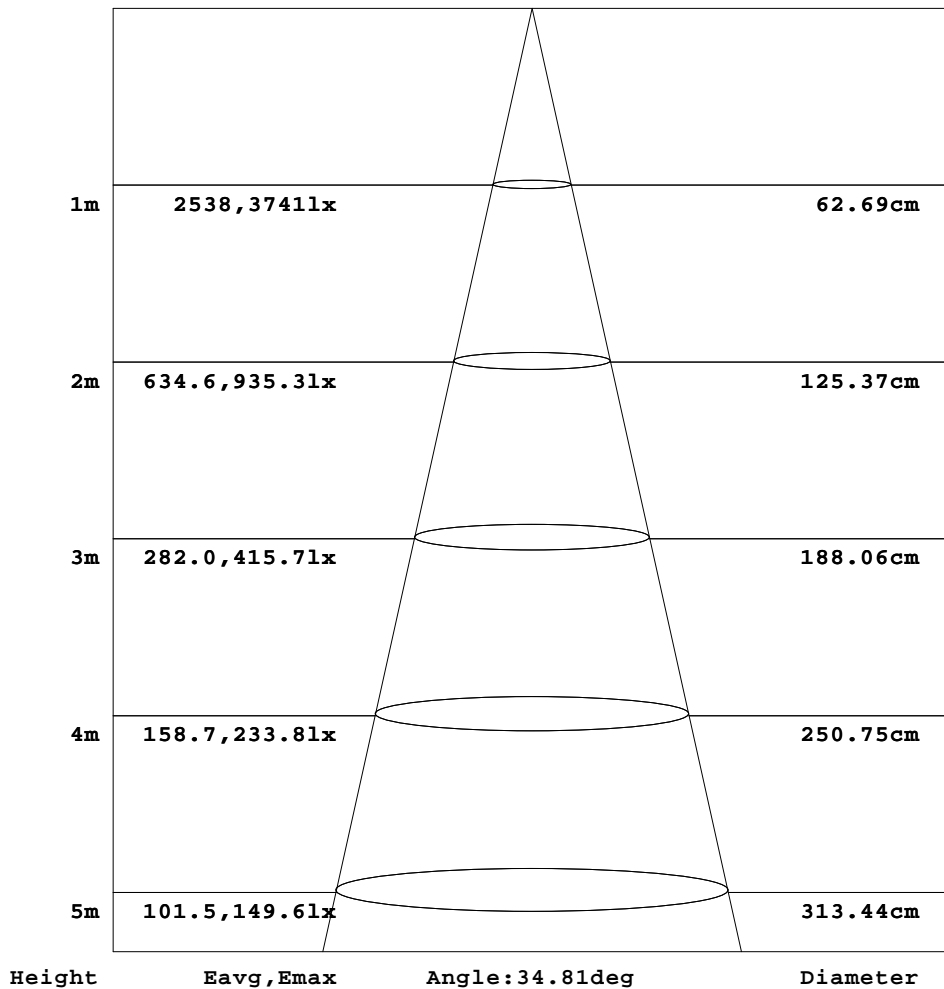
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30minutes warm-up

AAI Figure

Test:U:119.91V I:0.1484A P:17.708W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060234
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

Flux out:841.9 lm



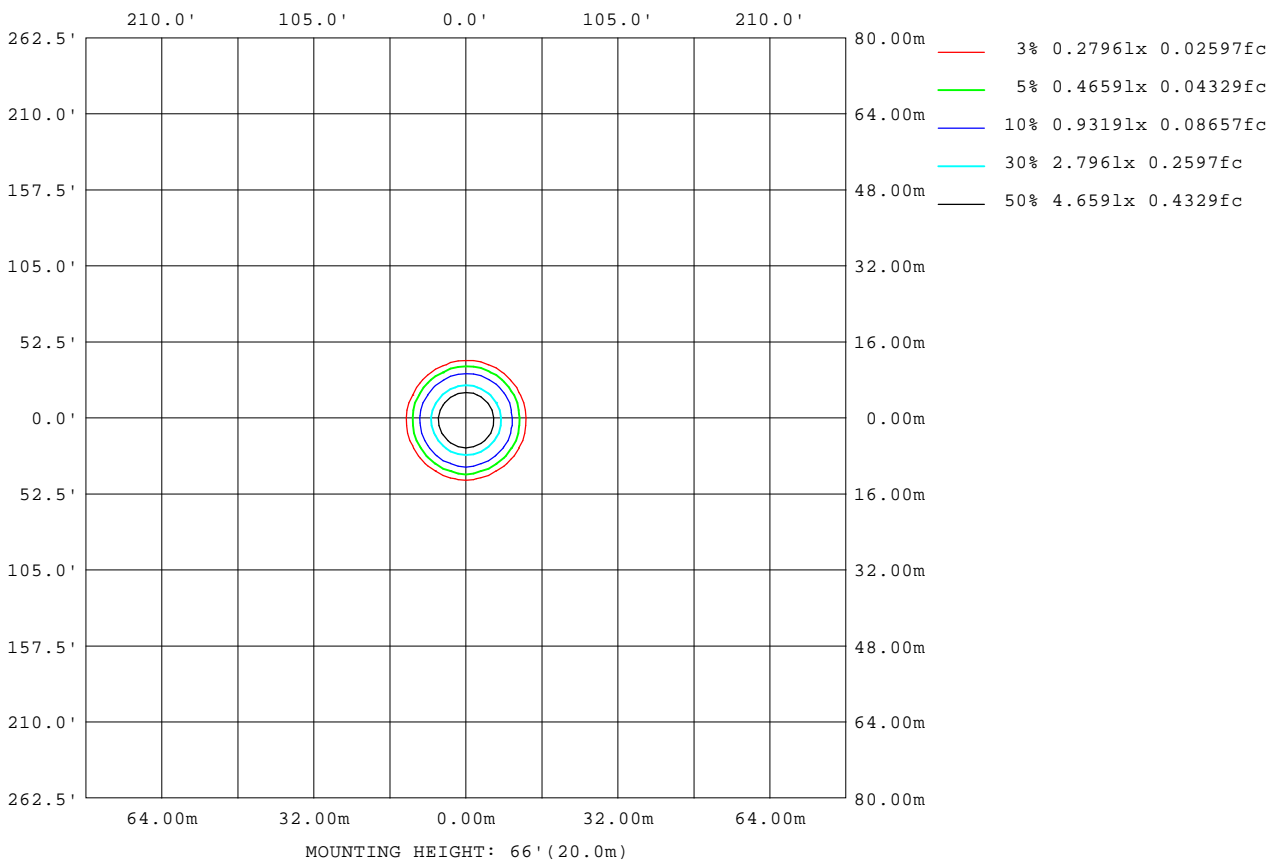
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-1082A 24R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:119.91V I:0.1484A P:17.708W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3lx1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060234
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-1082A 24R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LED Avg.L Report

Test:U:119.91V I:0.1484A P:17.708W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060234
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

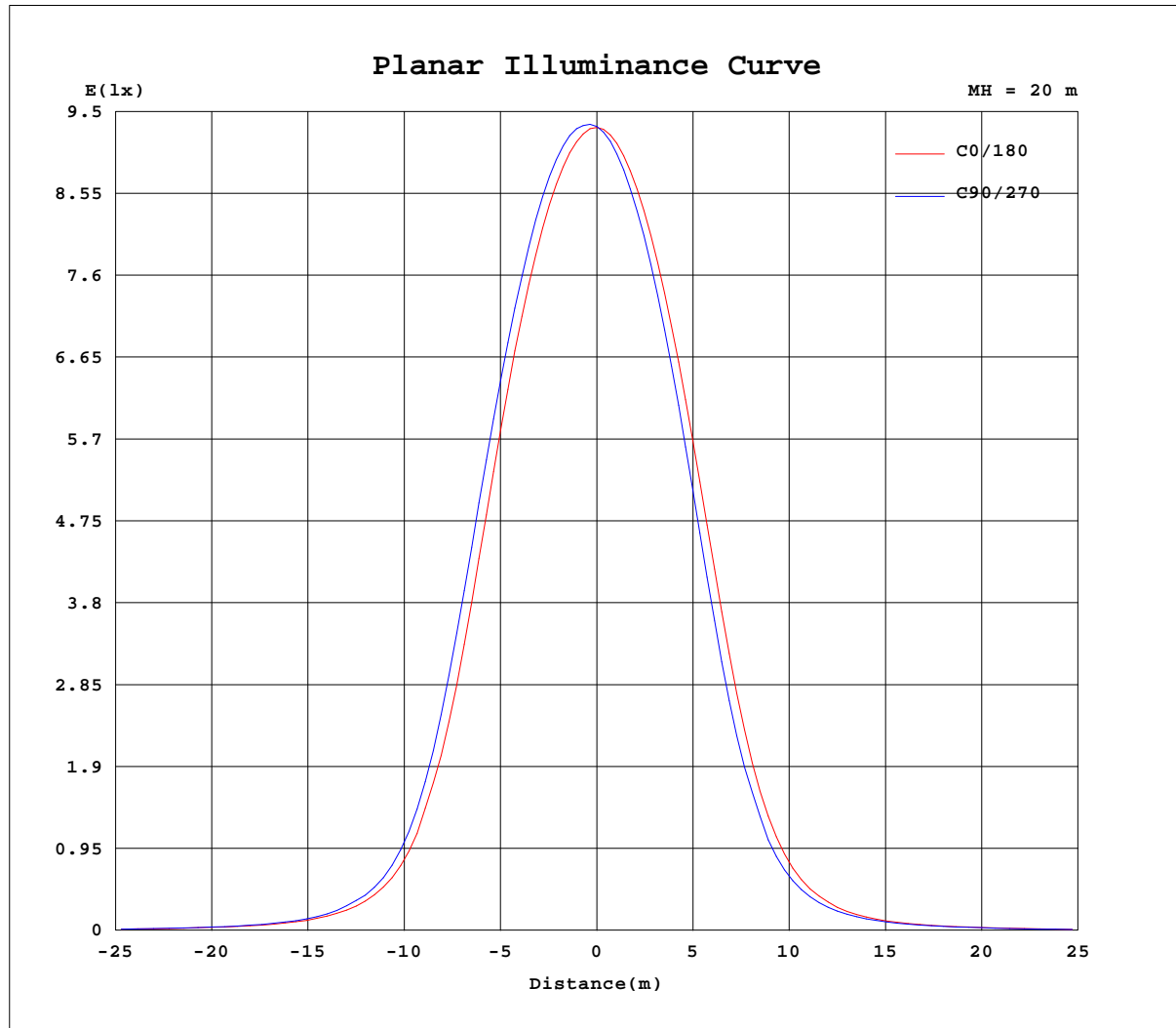
AvgL	cd/m2
L_0~180(65)av	2671
L_0~180(75)av	1586
L_0~180(85)av	1530
L_90~270(65)av	2461
L_90~270(75)av	1535
L_90~270(85)av	1414
L_45(65)av	2617
L_45(75)av	1568
L_45(85)av	1282

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-1082A 24R
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-1082A 24R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.91V I:0.1484A P:17.708W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060234
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	3732	3732	3732	3732	3732	3732	3732	3732	3732	3732	3732	3732						
5	3588	3641	3670	3684	3661	3612	3570	3516	3493	3482	3509	3554						
10	3143	3251	3303	3323	3269	3173	3100	3002	2945	2920	2969	3059						
15	2366	2528	2606	2636	2554	2404	2313	2168	2079	2046	2119	2240						
20	1375	1545	1615	1663	1567	1408	1329	1193	1118	1091	1167	1258						
25	607	695	743	759	726	619	586	508	474	463	508	551						
30	256	287	291	309	291	261	246	214	207	200	225	236						
35	122	134	134	142	135	122	114	102	96.4	98.5	107	114						
40	66.8	71.0	71.1	74.6	71.3	65.9	62.5	57.9	56.0	57.0	60.4	63.4						
45	42.5	44.6	44.3	45.7	44.0	41.3	40.2	37.7	36.7	37.3	39.6	41.1						
50	27.7	29.3	29.0	29.3	28.0	25.8	25.1	23.5	22.8	22.8	24.6	26.4						
55	14.8	16.2	16.2	14.3	14.9	13.3	12.5	11.3	10.9	10.8	12.2	13.8						
60	7.05	7.19	7.14	6.38	6.83	6.50	6.28	6.00	5.93	6.04	6.38	6.78						
65	4.51	4.67	4.66	4.25	4.27	4.06	3.92	3.57	3.55	3.53	3.88	4.33						
70	2.34	2.54	2.51	2.28	2.32	2.13	1.99	1.81	1.75	1.75	1.87	2.12						
75	1.57	1.60	1.62	1.55	1.58	1.52	1.50	1.44	1.41	1.42	1.45	1.51						
80	1.10	1.17	1.19	1.11	1.12	0.89	1.01	0.91	0.88	0.89	0.93	1.02						
85	0.53	0.61	0.64	0.56	0.33	0.22	0.47	0.38	0.35	0.36	0.40	0.47						
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
Test Speed: HIGH
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