

Luminaire Photograph



Light Output Ratio:	33.9%	
Luminaire Power:	8.183 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.25	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-1-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRH-30H0600-A-83 Ra: 97
LENS: PM-0145 15R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

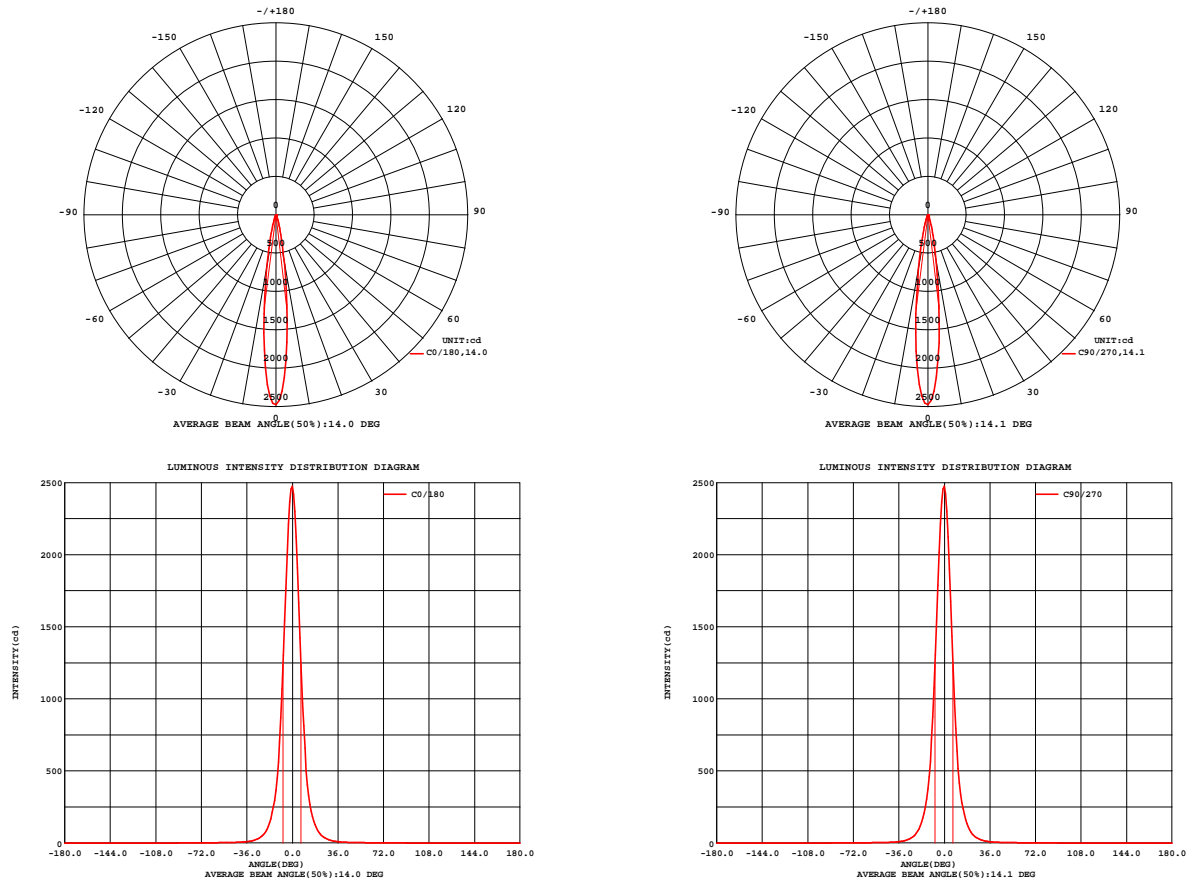


Fig. C0/C180

Fig. C90/C270

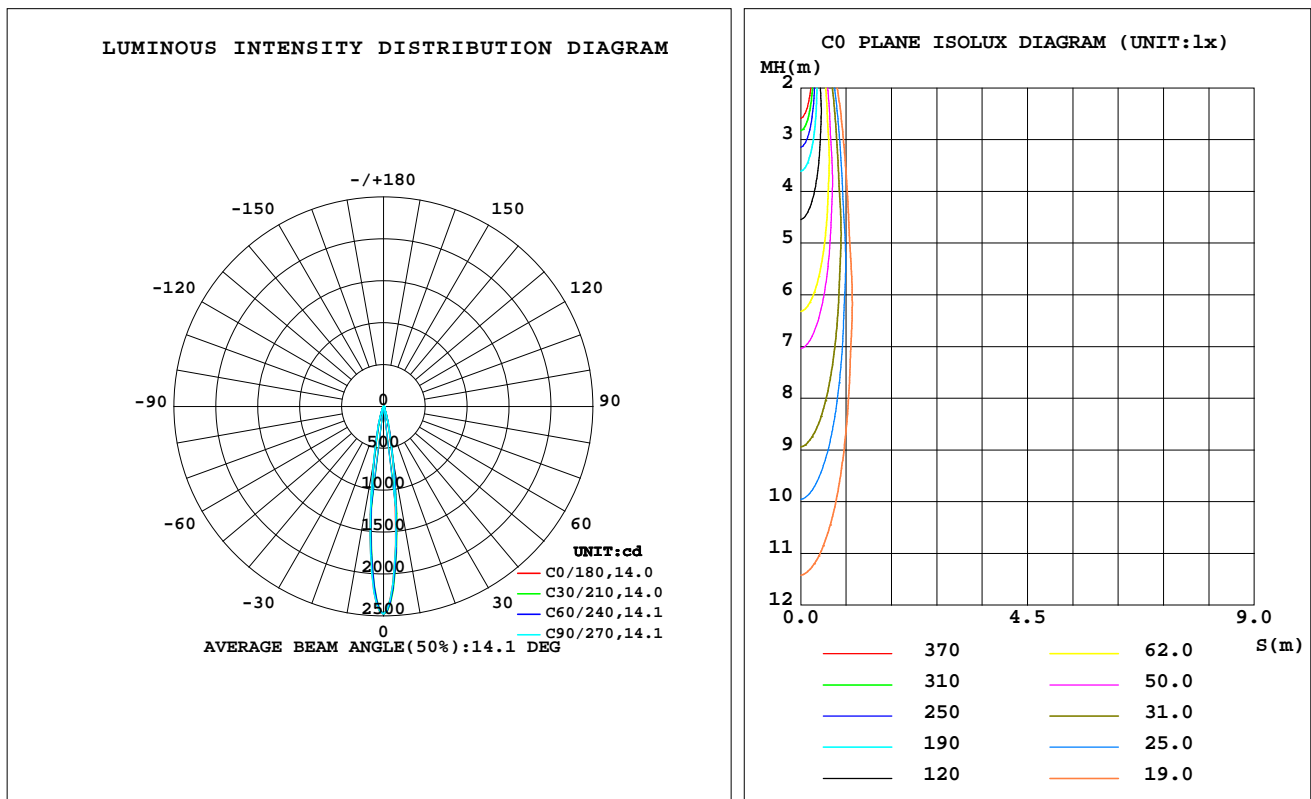
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
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Test Date: 2025-1-4

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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501030014
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 28.68 lm/W			
MODEL	Brideglux	I _{max} (cd)	2474	S/MH(C0/180)	0.25
NOMINAL POWER(W)	8	LOR(%)	33.9	S/MH(C90/270)	0.25
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	234.72	η UP,DN(C0-180)	0.0,16.9
NOMINAL FLUX(lm)	692.395	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,17.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	η down(%)	33.9	CIBSE SHR MAX	0.25



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	657.9	692.5	638.4	687.5	698.2	673.2	721.3	675.8	0- 10	128.4	128.4	54.7,18.5
20	87.97	93.55	92.01	95.53	95.07	90.30	97.35	93.17	10- 20	72.74	201.2	85.7,29.1
30	18.96	18.74	19.29	19.58	19.91	17.84	19.84	19.83	20- 30	19.90	221.1	94.2,31.9
40	5.872	5.980	5.883	5.952	6.212	5.572	6.018	6.105	30- 40	6.629	227.7	97,32.9
50	2.981	3.161	3.046	3.016	3.241	2.958	3.017	3.155	40- 50	3.240	230.9	98.4,33.4
60	2.005	2.064	2.020	2.008	2.061	1.962	1.945	2.034	50- 60	2.239	233.2	99.3,33.7
70	0.5734	0.6140	0.6387	0.5529	0.4912	0.4463	0.4474	0.5190	60- 70	1.330	234.5	99.9,33.9
80	0.0332	0.0325	0.0360	0.0280	0.0281	0.0223	0.0246	0.0232	70- 80	0.2105	234.7	100,33.9
90	0	0	0	0	0	0	0	0	80- 90	0.0169	234.7	100,33.9
100	0	0	0	0	0	0	0	0	90-100	0	234.7	100,33.9
110	0	0	0	0	0	0	0	0	100-110	0	234.7	100,33.9
120	0	0	0	0	0	0	0	0	110-120	0	234.7	100,33.9
130	0	0	0	0	0	0	0	0	120-130	0	234.7	100,33.9
140	0	0	0	0	0	0	0	0	130-140	0	234.7	100,33.9
150	0	0	0	0	0	0	0	0	140-150	0	234.7	100,33.9
160	0	0	0	0	0	0	0	0	150-160	0	234.7	100,33.9
170	0	0	0	0	0	0	0	0	160-170	0	234.7	100,33.9
180	0	0	0	0	0	0	0	0	170-180	0	234.7	100,33.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRH-30H0600-A-83 Ra:97
LENS:PM-0145 15R
NOT DRIVER:48V
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz
Lamp Flux:692.395x1 lm

NAME: OZ48-SBZ-40

TYPE:

WEIGHT:

SPEC.: 3000K

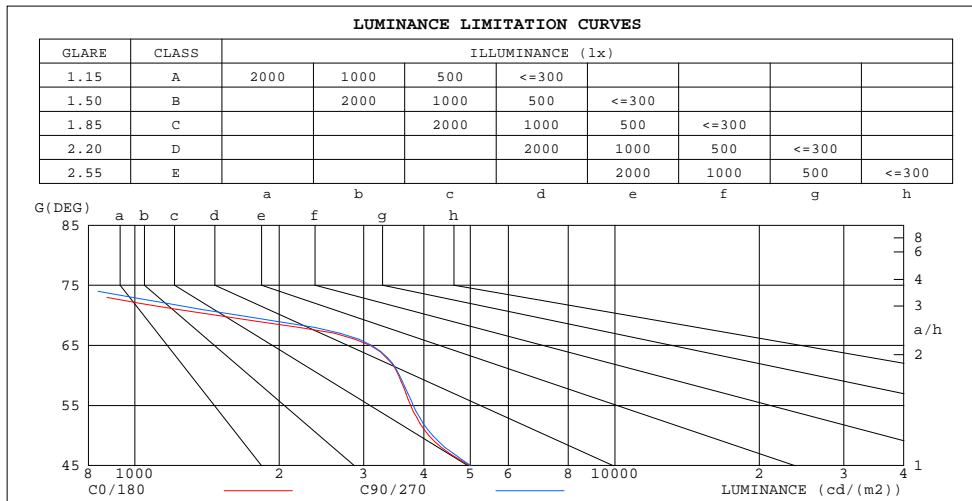
DIM.:

SERIAL No.: 2501030014

MFR.: RISE

SUR.: 0.00113354m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	233	223
80	169	183
75	609	707
70	1482	1646
65	3092	3114
60	3545	3561
55	3755	3805
50	4099	4178
45	4989	5014

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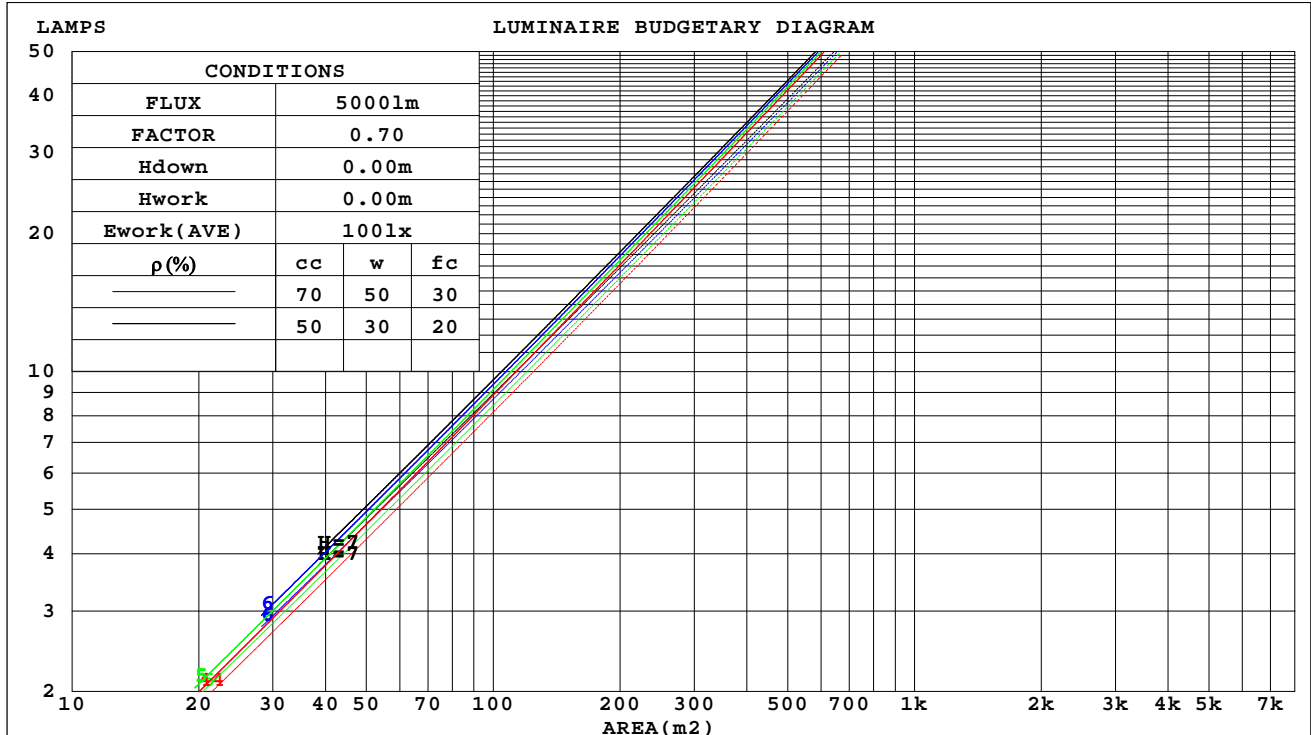
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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MFR.: RISE	SUR.: 0.00113354m2	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			Coefficients of Utilization(CU)												
0.0	.40	.40	.40	.39	.39	.39	.38	.38	.38	.36	.36	.36	.35	.35	.35	.34
1.0	.38	.38	.37	.38	.37	.37	.36	.36	.36	.35	.35	.35	.34	.34	.34	.33
2.0	.37	.36	.35	.36	.35	.35	.35	.35	.34	.34	.34	.33	.33	.33	.33	.32
3.0	.35	.34	.33	.35	.34	.33	.34	.33	.33	.33	.33	.32	.33	.32	.32	.31
4.0	.34	.33	.32	.34	.33	.32	.33	.32	.32	.33	.32	.31	.32	.32	.31	.31
5.0	.33	.32	.31	.33	.32	.31	.33	.32	.31	.32	.31	.31	.32	.31	.30	.30
6.0	.32	.31	.30	.32	.31	.30	.32	.31	.30	.31	.30	.30	.31	.30	.30	.29
7.0	.32	.30	.30	.31	.30	.29	.31	.30	.29	.31	.30	.29	.30	.30	.29	.29
8.0	.31	.30	.29	.31	.30	.29	.30	.29	.29	.30	.29	.29	.30	.29	.29	.28
9.0	.30	.29	.28	.30	.29	.28	.30	.29	.28	.30	.29	.28	.29	.29	.28	.28
10.0	.30	.29	.28	.30	.28	.28	.29	.28	.28	.29	.28	.28	.29	.28	.28	.27



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30minutes warm-up

WEC AND CCEC

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501030014
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.043	.024	.008	.041	.023	.007	.037	.021	.007	.033	.019	.006	.029	.017	.005	
2.0	.040	.022	.007	.038	.021	.006	.034	.019	.006	.031	.017	.005	.028	.016	.005	
3.0	.036	.019	.006	.035	.019	.006	.032	.017	.005	.029	.016	.005	.027	.015	.005	
4.0	.034	.018	.005	.033	.017	.005	.030	.016	.005	.028	.015	.005	.026	.014	.004	
5.0	.032	.016	.005	.031	.016	.005	.029	.015	.004	.027	.014	.004	.025	.013	.004	
6.0	.030	.015	.004	.029	.015	.004	.027	.014	.004	.025	.013	.004	.024	.013	.004	
7.0	.028	.014	.004	.027	.014	.004	.026	.013	.004	.024	.012	.004	.023	.012	.004	
8.0	.026	.013	.004	.026	.013	.004	.024	.012	.003	.023	.012	.003	.022	.011	.003	
9.0	.025	.012	.003	.024	.012	.003	.023	.012	.003	.022	.011	.003	.021	.011	.003	
10.0	.024	.011	.003	.023	.011	.003	.022	.011	.003	.021	.011	.003	.020	.010	.003	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.065	.065	.065	.055	.055	.055	.038	.038	.038	.022	.022	.022	.007	.007	.007	
1.0	.057	.053	.050	.049	.046	.043	.033	.032	.030	.019	.018	.017	.006	.006	.006	
2.0	.050	.045	.040	.043	.039	.035	.030	.027	.024	.017	.016	.014	.005	.005	.005	
3.0	.045	.038	.033	.039	.033	.029	.027	.023	.020	.015	.013	.012	.005	.004	.004	
4.0	.041	.033	.027	.035	.029	.024	.024	.020	.017	.014	.012	.010	.004	.004	.003	
5.0	.037	.029	.023	.032	.025	.020	.022	.017	.014	.013	.010	.008	.004	.003	.003	
6.0	.034	.025	.019	.029	.022	.017	.020	.015	.012	.012	.009	.007	.004	.003	.002	
7.0	.031	.023	.017	.027	.020	.015	.018	.014	.010	.011	.008	.006	.003	.003	.002	
8.0	.029	.020	.014	.025	.018	.013	.017	.012	.009	.010	.007	.005	.003	.002	.002	
9.0	.027	.018	.013	.023	.016	.011	.016	.011	.008	.009	.007	.005	.003	.002	.002	
10.0	.025	.017	.011	.021	.014	.010	.015	.010	.007	.009	.006	.004	.003	.002	.001	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2501030014		
MFR.: RISE					SUR.: 0.00113354m2			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	10.2	10.8	10.4	10.9	11.1	10.4	10.9	10.6	11.1	11.2
3H	10.7	11.2	10.9	11.4	11.6	10.9	11.4	11.1	11.6	11.8
4H	10.6	11.2	10.9	11.4	11.6	10.8	11.4	11.1	11.6	11.8
6H	10.6	11.1	10.8	11.3	11.5	10.8	11.3	11.0	11.5	11.7
8H	10.5	11.0	10.8	11.2	11.5	10.7	11.2	11.0	11.4	11.7
12H	10.5	10.9	10.8	11.2	11.5	10.7	11.1	11.0	11.4	11.7
4H 2H	10.6	11.1	10.8	11.3	11.5	10.7	11.2	10.9	11.4	11.6
3H	11.0	11.5	11.3	11.8	12.0	11.2	11.7	11.5	11.9	12.2
4H	11.0	11.4	11.3	11.7	12.0	11.2	11.6	11.5	11.9	12.2
6H	10.9	11.3	11.3	11.6	11.9	11.1	11.5	11.4	11.8	12.1
8H	10.8	11.2	11.2	11.5	11.9	11.0	11.4	11.4	11.7	12.1
12H	10.8	11.1	11.2	11.5	11.9	11.0	11.3	11.4	11.7	12.0
8H 4H	10.9	11.2	11.3	11.6	11.9	11.1	11.4	11.4	11.7	12.1
6H	10.8	11.1	11.2	11.5	11.9	10.9	11.2	11.4	11.6	12.0
8H	10.7	11.0	11.2	11.4	11.8	10.9	11.1	11.3	11.6	12.0
12H	10.7	10.9	11.1	11.3	11.8	10.8	11.0	11.3	11.5	12.0
12H 4H	10.8	11.1	11.2	11.5	11.9	11.0	11.3	11.4	11.7	12.1
6H	10.7	11.0	11.2	11.4	11.8	10.9	11.1	11.3	11.6	12.0
8H	10.7	10.9	11.1	11.3	11.8	10.8	11.0	11.3	11.5	12.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.9 / - 1.2					+ 0.8 / - 1.2				
1.5H	+ 1.6 / - 0.9					+ 1.3 / - 0.9				
2.0H	+ 0.6 / - 1.0					+ 0.8 / - 1.1				

CIE Pub.117, 692.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
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UTILIZATION FACTORS TABLE

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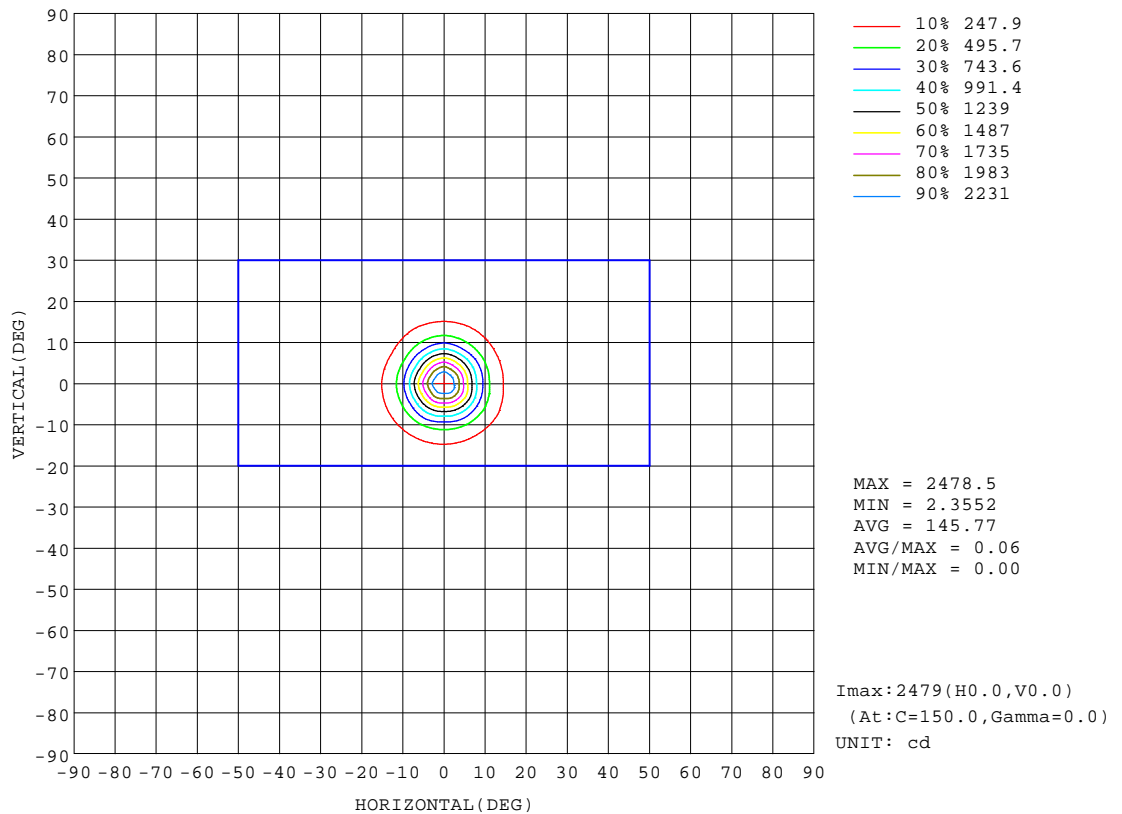
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	30	28	27	30	28	27	30	28	27	26
0.80	33	31	30	33	31	30	32	31	30	28
1.00	34	32	31	34	32	31	33	32	31	30
1.25	35	34	33	35	34	33	34	33	32	31
1.50	36	35	34	36	35	34	35	34	33	32
2.00	37	36	35	37	35	34	36	35	34	32
2.50	38	36	35	37	36	35	36	35	34	33
3.00	38	37	36	37	37	36	36	36	35	33
4.00	39	38	37	38	37	37	37	36	36	33
5.00	39	38	38	38	38	37	37	37	36	34
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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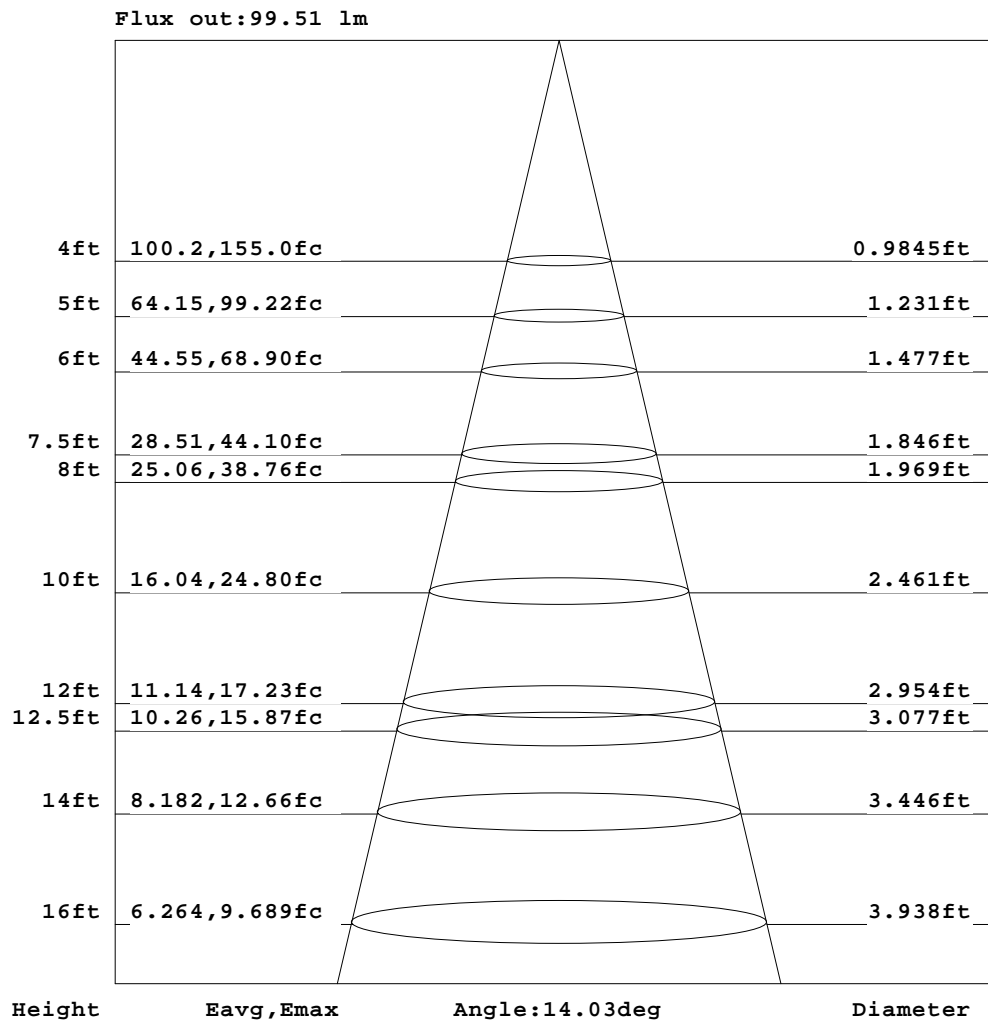


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AAI Figure

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501030014
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:



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

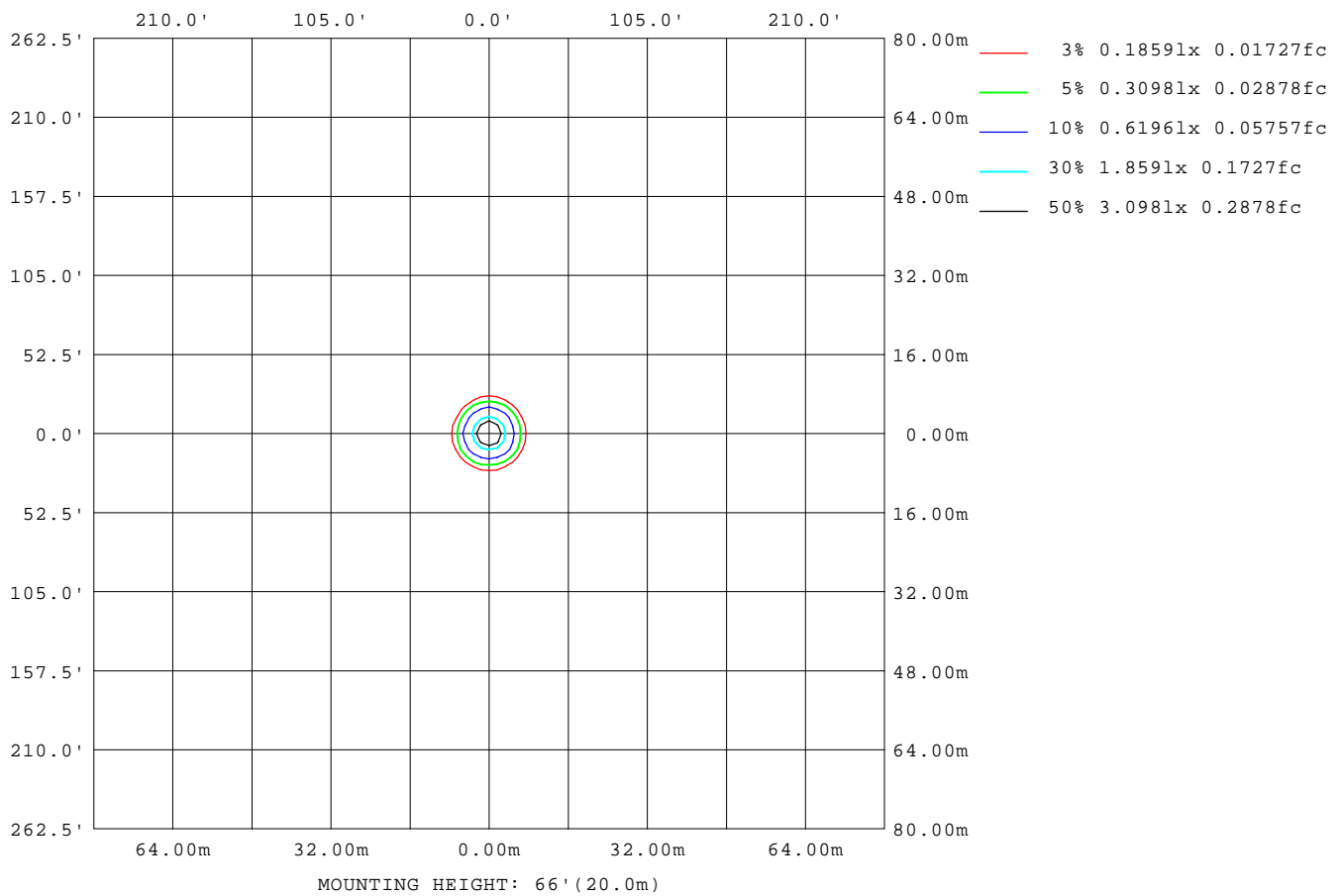
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-1-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRH-30H0600-A-83 Ra:97
LENS:PM-0145 15R
NOT DRIVER:48V
30minutes warm-up



ISOLUX DIAGRAM

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501030014
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-1-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRH-30H0600-A-83 Ra: 97
LENS: PM-0145 15R
NOT DRIVER: 48V
30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501030014
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:

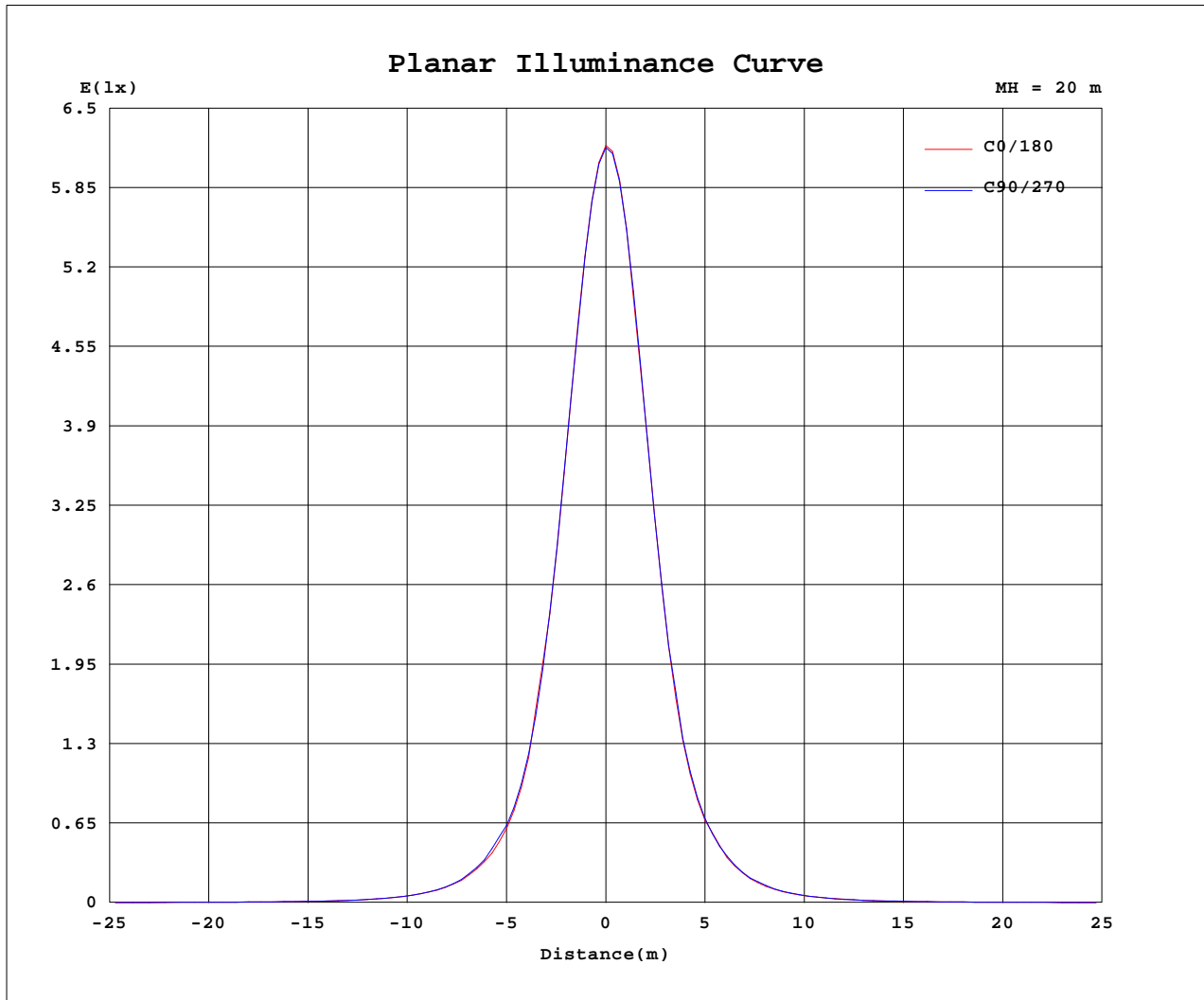
AvgL	cd/m2
L_0~180(65)av	2983
L_0~180(75)av	572
L_0~180(85)av	205
L_90~270(65)av	2915
L_90~270(75)av	583
L_90~270(85)av	190
L_45(65)av	2960
L_45(75)av	570
L_45(85)av	151

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-1-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRH-30H0600-A-83 Ra:97
LENS:PM-0145 15R
NOT DRIVER:48V
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2025-1-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRH-30H0600-A-83 Ra: 97
 LENS: PM-0145 15R
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501030014
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474	2474						
5	1666	1752	1729	1675	1732	1719	1766	1685	1715	1786	1703	1710						
10	658	689	697	638	701	674	698	669	677	721	668	683						
15	221	251	235	239	241	253	254	228	252	251	249	230						
20	88.0	94.5	92.6	92.0	94.4	96.7	95.1	87.4	93.2	97.3	94.9	91.4						
25	39.2	38.5	38.9	39.4	40.1	41.4	40.8	35.4	39.0	41.6	40.9	40.5						
30	19.0	18.7	18.8	19.3	19.0	20.2	19.9	16.8	18.9	19.8	20.0	19.7						
35	9.96	9.71	9.98	9.92	9.95	10.3	10.2	9.12	9.60	10.4	10.3	10.3						
40	5.87	5.84	6.12	5.88	5.92	5.99	6.21	5.46	5.69	6.02	6.19	6.02						
45	3.99	4.03	4.38	4.02	4.11	4.08	4.43	3.84	3.90	4.06	4.35	4.06						
50	2.98	3.04	3.28	3.05	3.00	3.04	3.24	2.96	2.95	3.02	3.26	3.05						
55	2.44	2.48	2.62	2.48	2.44	2.48	2.59	2.44	2.41	2.43	2.59	2.48						
60	2.01	2.03	2.09	2.02	1.99	2.03	2.06	1.97	1.95	1.94	2.05	2.02						
65	1.48	1.49	1.52	1.49	1.44	1.44	1.38	1.32	1.30	1.30	1.41	1.42						
70	0.57	0.60	0.63	0.64	0.57	0.54	0.49	0.45	0.44	0.45	0.51	0.53						
75	0.18	0.19	0.20	0.21	0.19	0.17	0.16	0.14	0.13	0.13	0.16	0.16						
80	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02						
85	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.02	0.01	0.01						
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						

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