

Luminaire Photograph



Light Output Ratio:	88.5%	
Luminaire Power:	13.92 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-7-18

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-30G10T0-G-83 Ra:90
LENS: PM-1084A 24R
DRIVER: PUP20A-1WMC 600mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

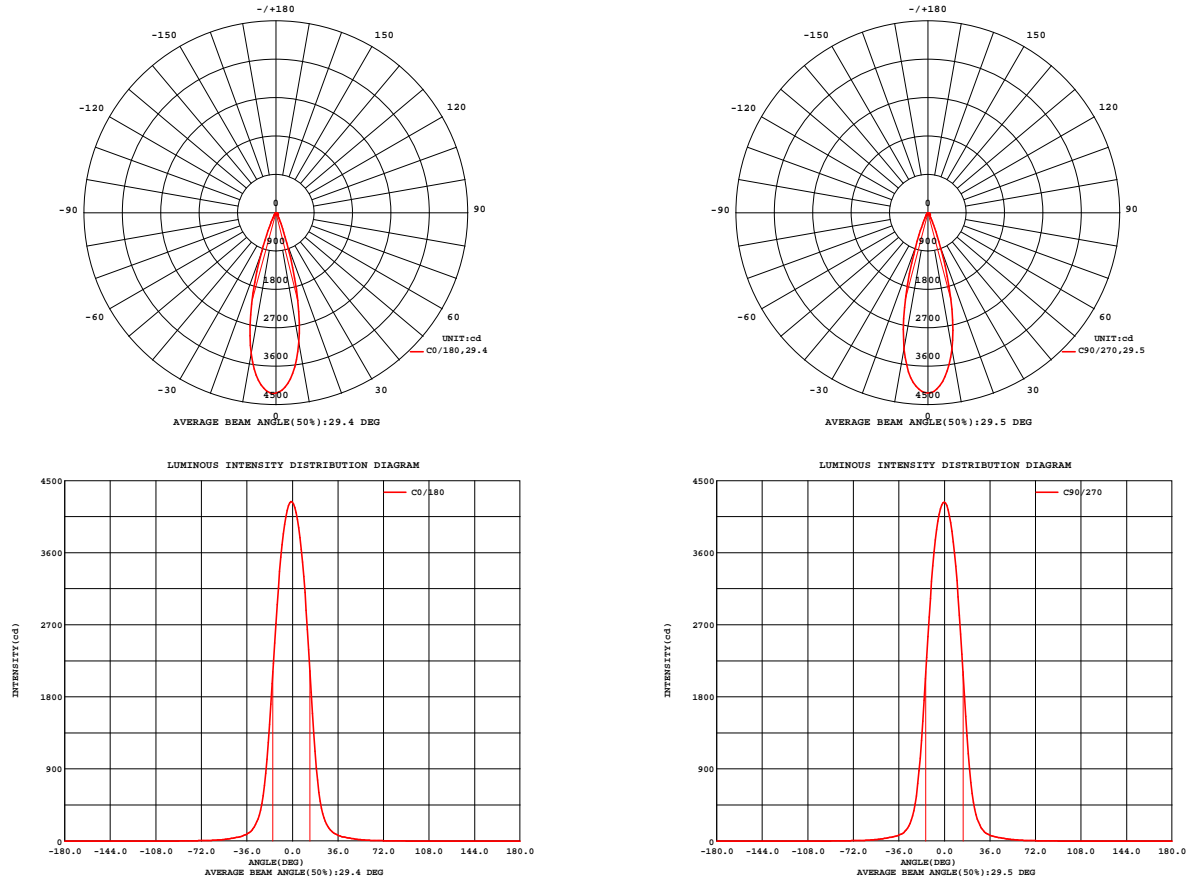


Fig. C0/C180

Fig. C90/C270

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Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-7-18

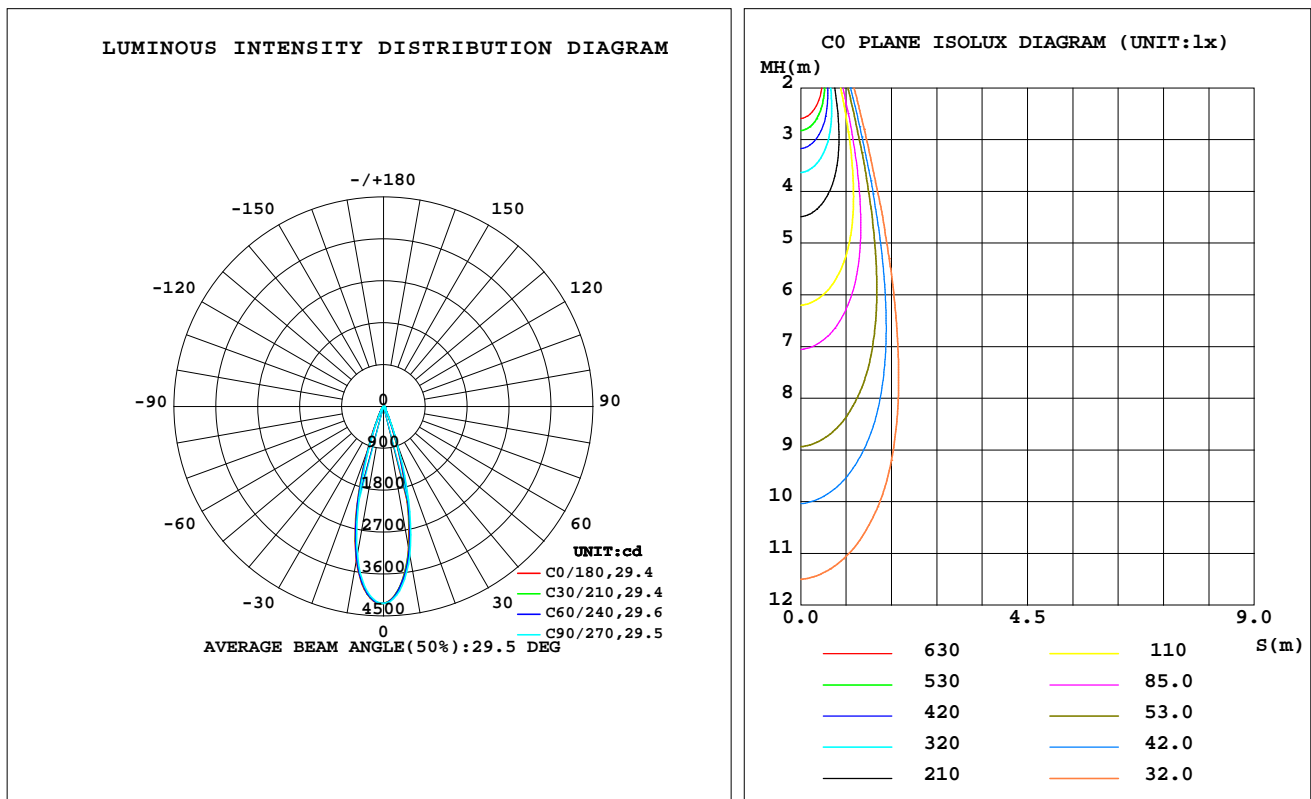
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.08V I:0.1168A P:13.921W PF:0.9908 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180440
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.33 lm/W			
MODEL	Brideglux	I _{max} (cd)	4239	S/MH(C0/180)	0.49
NOMINAL POWER(W)	13	LOR(%)	88.5	S/MH(C90/270)	0.46
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1187.9	η UP,DN(C0-180)	0.0,43.8
NOMINAL FLUX(lm)	1342.44	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,44.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	88.5	CIBSE SHR MAX	0.30



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3103	3150	3251	3343	3366	3327	3242	3158	0- 10	356.6	356.6	30,26.6
20	759.4	823.0	895.5	990.0	1021	963.0	876.0	816.0	10- 20	544.7	901.3	75.9,67.1
30	139.7	142.6	144.4	161.5	173.8	158.2	137.1	143.7	20- 30	174.1	1075	90.5,80.1
40	51.73	52.02	52.89	56.46	59.89	57.28	53.76	52.99	30- 40	55.80	1131	95.2,84.3
50	22.86	23.74	24.79	25.87	26.94	26.39	24.15	23.47	40- 50	29.82	1161	97.7,86.5
60	9.473	9.884	10.32	10.41	11.02	11.01	10.34	9.606	50- 60	14.73	1176	99,87.6
70	4.403	4.458	4.467	4.881	5.054	4.965	4.761	4.530	60- 70	6.836	1183	99.6,88.1
80	2.522	2.533	2.494	2.789	2.923	2.895	2.810	2.597	70- 80	3.794	1186	99.9,88.4
90	0	0	0	0	0	0	0	0	80- 90	1.482	1188	100,88.5
100	0	0	0	0	0	0	0	0	90-100	0	1188	100,88.5
110	0	0	0	0	0	0	0	0	100-110	0	1188	100,88.5
120	0	0	0	0	0	0	0	0	110-120	0	1188	100,88.5
130	0	0	0	0	0	0	0	0	120-130	0	1188	100,88.5
140	0	0	0	0	0	0	0	0	130-140	0	1188	100,88.5
150	0	0	0	0	0	0	0	0	140-150	0	1188	100,88.5
160	0	0	0	0	0	0	0	0	150-160	0	1188	100,88.5
170	0	0	0	0	0	0	0	0	160-170	0	1188	100,88.5
180	0	0	0	0	0	0	0	0	170-180	0	1188	100,88.5
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-30G10T0-G-83 Ra:90
LENS:PM-1084A 24R
DRIVER:PUP20A-1WMC 600mA

30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.08V I:0.1168A P:13.921W PF:0.9908 Freq:59.98Hz
Lamp Flux:1342.44x1 lm

NAME: 2218.510-LEA-28-H0

TYPE:

WEIGHT:

SPEC.: 3000K

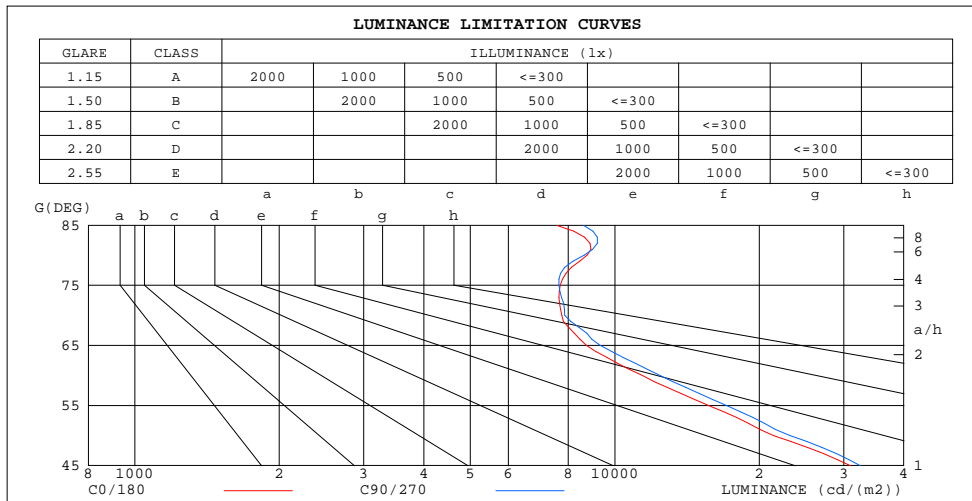
DIM.:

SERIAL No.: 2507180440

MFR.: RISE

SUR.: 0.00166106m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	7571	8611
80	8751	8641
75	7694	7648
70	7756	7859
65	8723	9324
60	11414	12422
55	15691	17099
50	21421	23210
45	30986	32484

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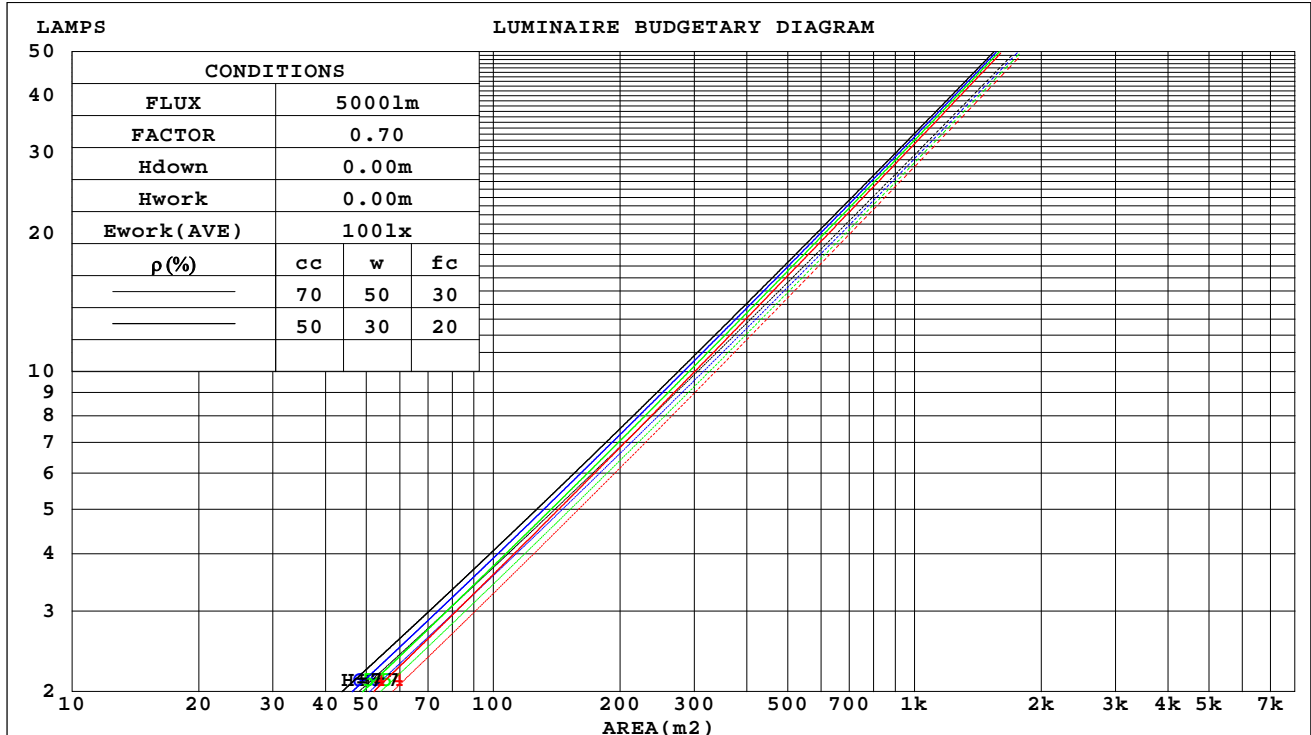
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507180440
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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WEC AND CCEC

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NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180440
MFR.: RISE	SUR.: 0.00166106m2	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	.131	.074	.024	.125	.071	.023	.114	.065	.021	.104	.060	.019	.095	.055	.018		
2.0	.122	.067	.020	.117	.064	.020	.108	.060	.019	.099	.056	.017	.092	.052	.016		
3.0	.114	.061	.018	.110	.059	.018	.102	.055	.017	.095	.052	.016	.088	.049	.015		
4.0	.107	.055	.016	.103	.054	.016	.097	.051	.015	.091	.049	.015	.085	.046	.014		
5.0	.100	.051	.015	.098	.050	.015	.092	.048	.014	.087	.046	.014	.082	.044	.013		
6.0	.095	.048	.014	.092	.047	.013	.088	.045	.013	.083	.043	.013	.079	.042	.012		
7.0	.090	.045	.013	.088	.044	.012	.084	.042	.012	.080	.041	.012	.076	.040	.012		
8.0	.086	.042	.012	.084	.041	.012	.080	.040	.011	.077	.039	.011	.074	.038	.011		
9.0	.082	.040	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011	.071	.036	.010		
10.0	.078	.038	.010	.077	.037	.010	.074	.036	.010	.071	.035	.010	.069	.035	.010		

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	.169	.169	.169	.144	.144	.144	.098	.098	.098	.056	.056	.056	.018	.018	.018	
1.0	.150	.139	.130	.128	.120	.112	.088	.082	.078	.050	.048	.045	.016	.015	.015	
2.0	.134	.117	.103	.115	.101	.089	.079	.070	.062	.045	.041	.036	.015	.013	.012	
3.0	.121	.100	.083	.104	.087	.072	.071	.060	.051	.041	.035	.030	.013	.011	.010	
4.0	.111	.087	.069	.095	.075	.060	.065	.052	.042	.038	.031	.025	.012	.010	.008	
5.0	.102	.076	.057	.087	.066	.050	.060	.046	.035	.035	.027	.021	.011	.009	.007	
6.0	.094	.067	.048	.081	.058	.042	.056	.041	.030	.032	.024	.018	.010	.008	.006	
7.0	.087	.060	.041	.075	.052	.036	.052	.037	.025	.030	.022	.015	.010	.007	.005	
8.0	.082	.054	.035	.070	.047	.031	.049	.033	.022	.028	.020	.013	.009	.006	.004	
9.0	.077	.049	.031	.066	.043	.027	.046	.030	.019	.027	.018	.011	.009	.006	.004	
10.0	.072	.045	.027	.062	.039	.024	.043	.028	.017	.025	.016	.010	.008	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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NAME: 2218.510-LEA-28-H0					TYPE:			WEIGHT:			
SPEC.: 3000K					DIM.:			SERIAL No.: 2507180440			
MFR.: RISE					SUR.: 0.00166106m2			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	14.4	15.2	14.7	15.3	15.5	14.6	15.3	14.8	15.5	15.6	
	3H	14.7	15.3	14.9	15.5	15.7	14.8	15.5	15.1	15.7	15.9
	4H	14.8	15.4	15.1	15.6	15.9	14.9	15.6	15.2	15.8	16.0
	6H	15.0	15.6	15.2	15.8	16.0	15.1	15.7	15.4	15.9	16.2
	8H	15.0	15.6	15.3	15.9	16.1	15.2	15.8	15.5	16.0	16.2
	12H	15.1	15.6	15.4	15.9	16.2	15.2	15.8	15.5	16.0	16.3
4H	2H	14.5	15.1	14.8	15.3	15.5	14.6	15.3	14.9	15.5	15.7
	3H	14.8	15.4	15.1	15.6	15.9	15.0	15.5	15.3	15.8	16.0
	4H	15.0	15.5	15.4	15.8	16.1	15.2	15.7	15.5	16.0	16.3
	6H	15.3	15.8	15.7	16.1	16.4	15.4	15.9	15.8	16.2	16.5
	8H	15.5	15.9	15.8	16.2	16.6	15.6	16.0	16.0	16.3	16.7
	12H	15.5	15.9	15.9	16.3	16.7	15.7	16.1	16.1	16.4	16.8
8H	4H	15.1	15.5	15.5	15.8	16.2	15.2	15.6	15.6	16.0	16.3
	6H	15.5	15.8	15.9	16.2	16.6	15.6	15.9	16.0	16.3	16.7
	8H	15.7	16.0	16.1	16.4	16.8	15.8	16.1	16.2	16.5	17.0
	12H	15.8	16.1	16.3	16.5	17.0	16.0	16.2	16.4	16.7	17.1
12H	4H	15.0	15.4	15.5	15.8	16.2	15.2	15.6	15.6	15.9	16.3
	6H	15.5	15.8	15.9	16.2	16.6	15.6	15.9	16.0	16.3	16.7
	8H	15.7	16.0	16.2	16.4	16.9	15.8	16.1	16.3	16.6	17.0
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 1.0 / - 1.4					+ 0.9 / - 1.3					
1.5H	+ 1.4 / - 1.0					+ 1.4 / - 1.1					
2.0H	+ 2.2 / - 1.5					+ 2.2 / - 1.6					

CIE Pub.117, 1342 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)
Area: 0.00166106 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507180440
MFR.: RISE	SUR.: 0.00166106m2	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	78	73	70	78	73	70	77	72	70	66
0.80	85	80	77	84	80	77	83	79	76	73
1.00	88	84	81	88	83	80	86	83	80	77
1.25	92	87	84	91	87	84	89	86	83	80
1.50	94	90	87	93	89	87	91	88	86	82
2.00	96	93	90	95	92	89	93	90	88	83
2.50	98	95	92	96	93	91	94	91	89	84
3.00	99	96	94	98	95	93	95	93	91	85
4.00	101	98	97	99	97	95	96	94	93	87
5.00	102	100	98	100	98	97	97	95	94	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

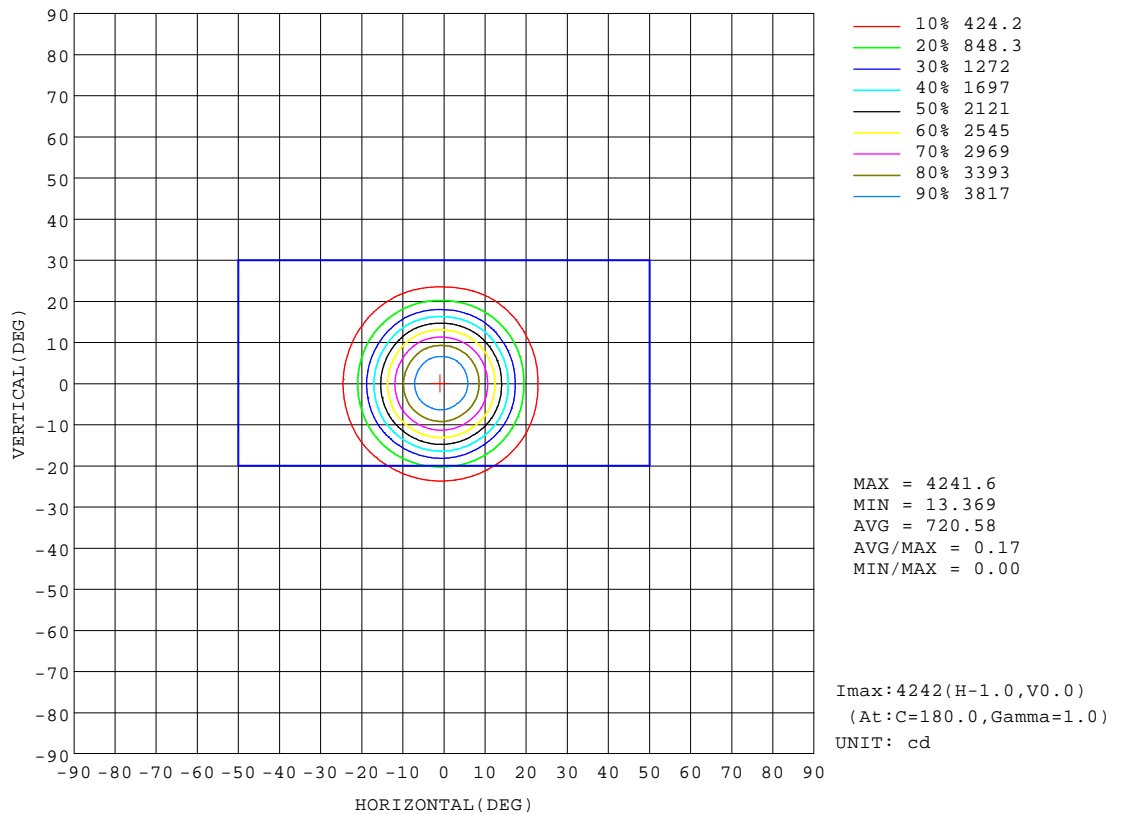
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ISOCANDELA DIAGRAM

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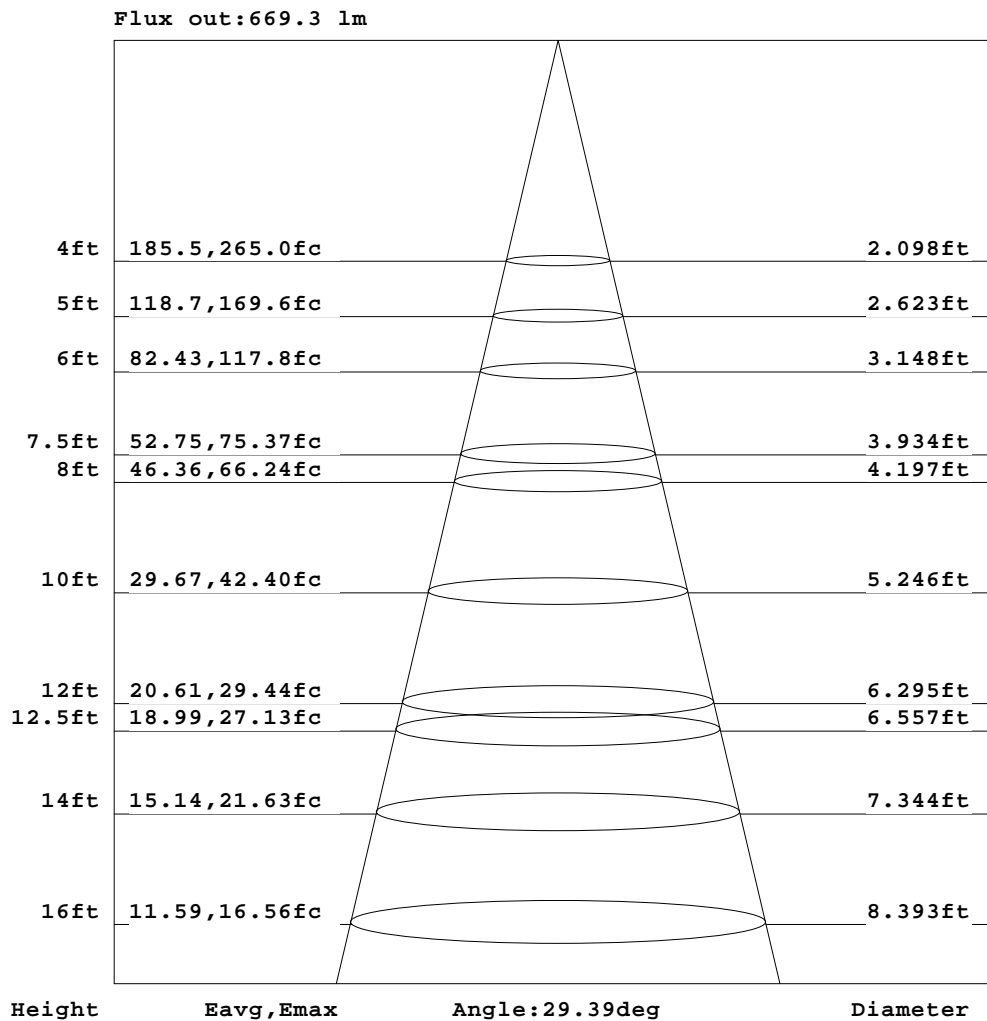


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AAI Figure

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

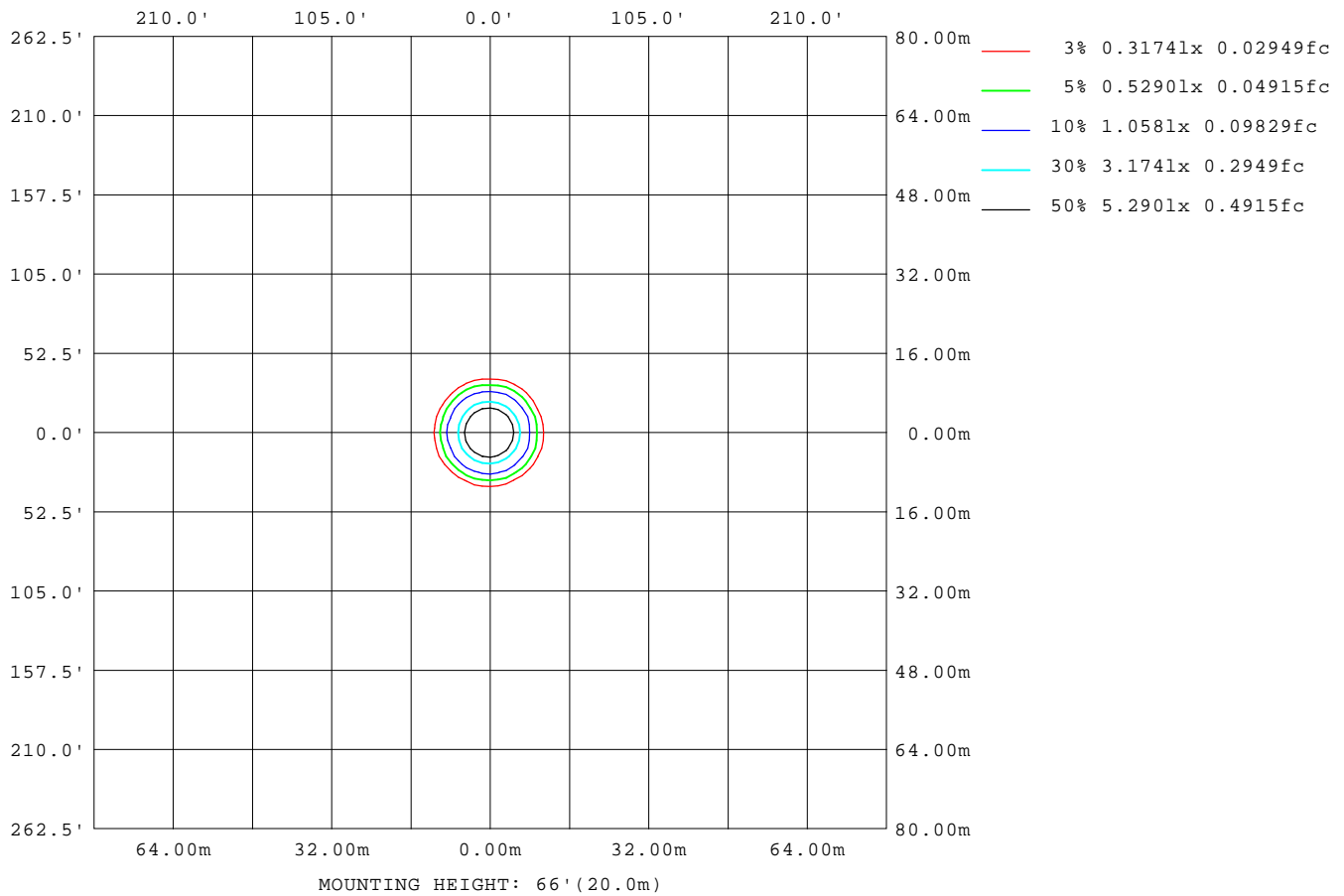
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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507180440
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-7-18

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-30G10T0-G-83 Ra:90
LENS:PM-1084A 24R
DRIVER:PUP20A-1WMC 600mA

30minutes warm-up

LED Avg.L Report

Test:U:120.08V I:0.1168A P:13.921W PF:0.9908 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180440
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

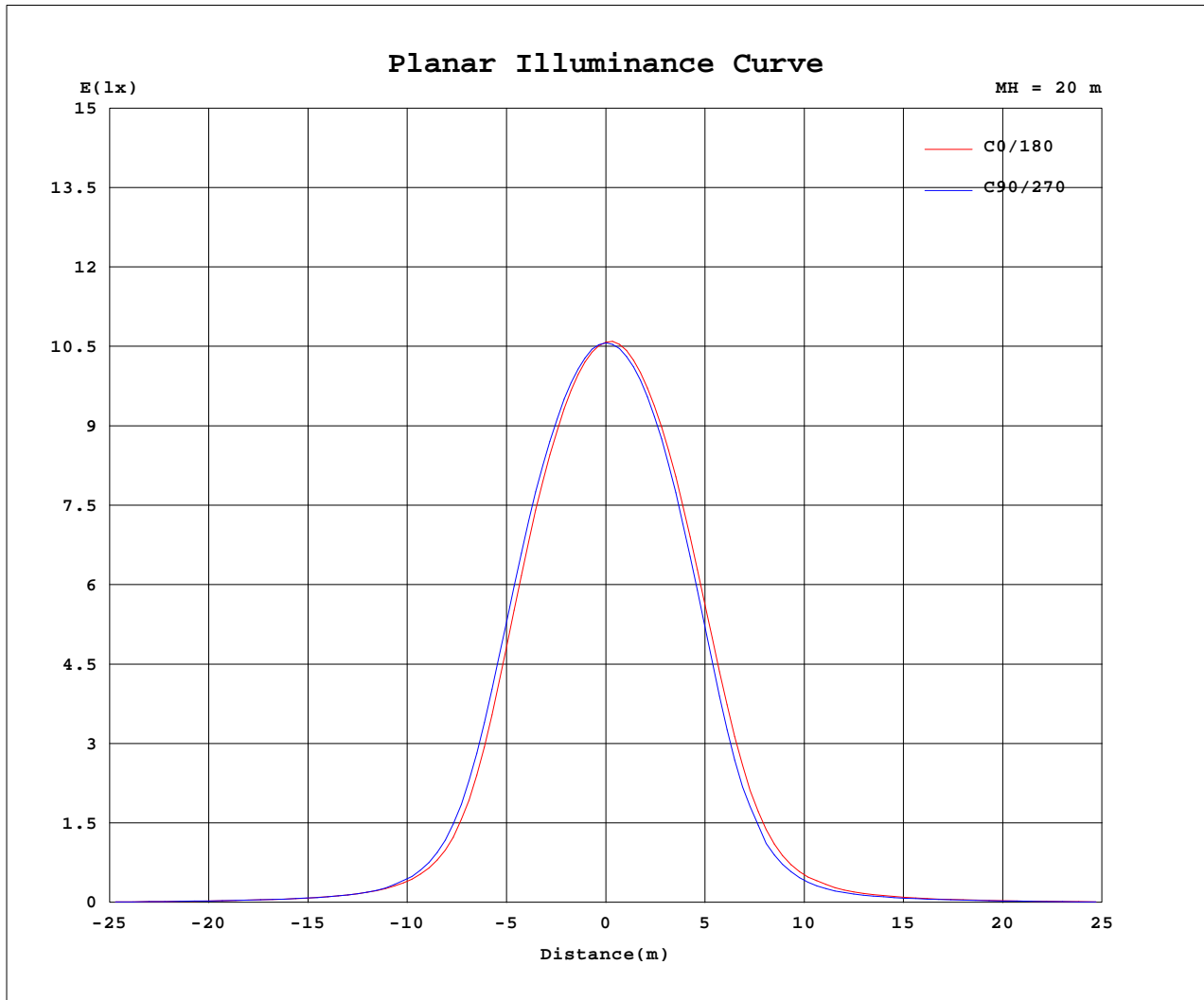
AvgL	cd/m2
L_0~180(65)av	9409
L_0~180(75)av	8303
L_0~180(85)av	9742
L_90~270(65)av	9407
L_90~270(75)av	8056
L_90~270(85)av	9244
L_45(65)av	9373
L_45(75)av	8285
L_45(85)av	9510

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-7-18

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-30G10T0-G-83 Ra:90
LENS:PM-1084A 24R
DRIVER:PUP20A-1WMC 600mA
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: 2025-7-18

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-30G10T0-G-83 Ra: 90
 LENS: PM-1084A 24R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.1168A P:13.921W PF:0.9908 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.510-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507180440
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4229	4229	4229	4229	4229	4229	4229	4229	4229	4229	4229	4229						
5	3911	3914	3925	3973	4006	4042	4048	4035	4029	3994	3963	3927						
10	3103	3133	3166	3251	3314	3372	3366	3329	3326	3242	3186	3130						
15	1855	1924	1966	2073	2149	2226	2217	2168	2151	2023	1967	1886						
20	759	797	849	896	953	1027	1021	976	950	876	832	800						
25	289	307	311	330	349	383	387	368	354	314	322	295						
30	140	144	141	144	153	170	174	163	153	137	147	141						
35	81.7	81.2	80.7	80.2	85.9	94.1	96.1	92.4	85.7	80.3	81.9	81.7						
40	51.7	52.1	52.0	52.9	54.8	58.1	59.9	58.2	56.4	53.8	53.8	52.2						
45	36.4	36.8	37.3	38.2	39.1	40.4	41.4	40.8	40.5	38.4	38.1	36.9						
50	22.9	23.5	23.9	24.8	25.4	26.3	26.9	26.4	26.4	24.2	23.9	23.0						
55	14.9	15.6	15.8	16.3	16.4	16.8	17.2	17.2	17.4	16.1	15.5	14.9						
60	9.47	9.76	10.0	10.3	10.3	10.5	11.0	11.0	11.0	10.3	9.80	9.42						
65	6.12	6.18	6.27	6.55	6.74	6.91	7.09	7.00	6.93	6.66	6.44	6.19						
70	4.40	4.43	4.48	4.47	4.78	4.98	5.05	4.99	4.94	4.76	4.61	4.45						
75	3.31	3.32	3.36	3.29	3.61	3.76	3.83	3.79	3.77	3.64	3.51	3.33						
80	2.52	2.51	2.55	2.49	2.73	2.85	2.92	2.90	2.89	2.81	2.66	2.53						
85	1.10	1.12	1.16	1.25	1.44	1.62	1.73	1.67	1.61	1.43	1.25	1.15						
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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