

Luminaire Photograph



Light Output Ratio:	81.9%	
Luminaire Power:	13.88 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-7-17

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-1084C 50R
DRIVER: PUP20A-1WMC 600mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

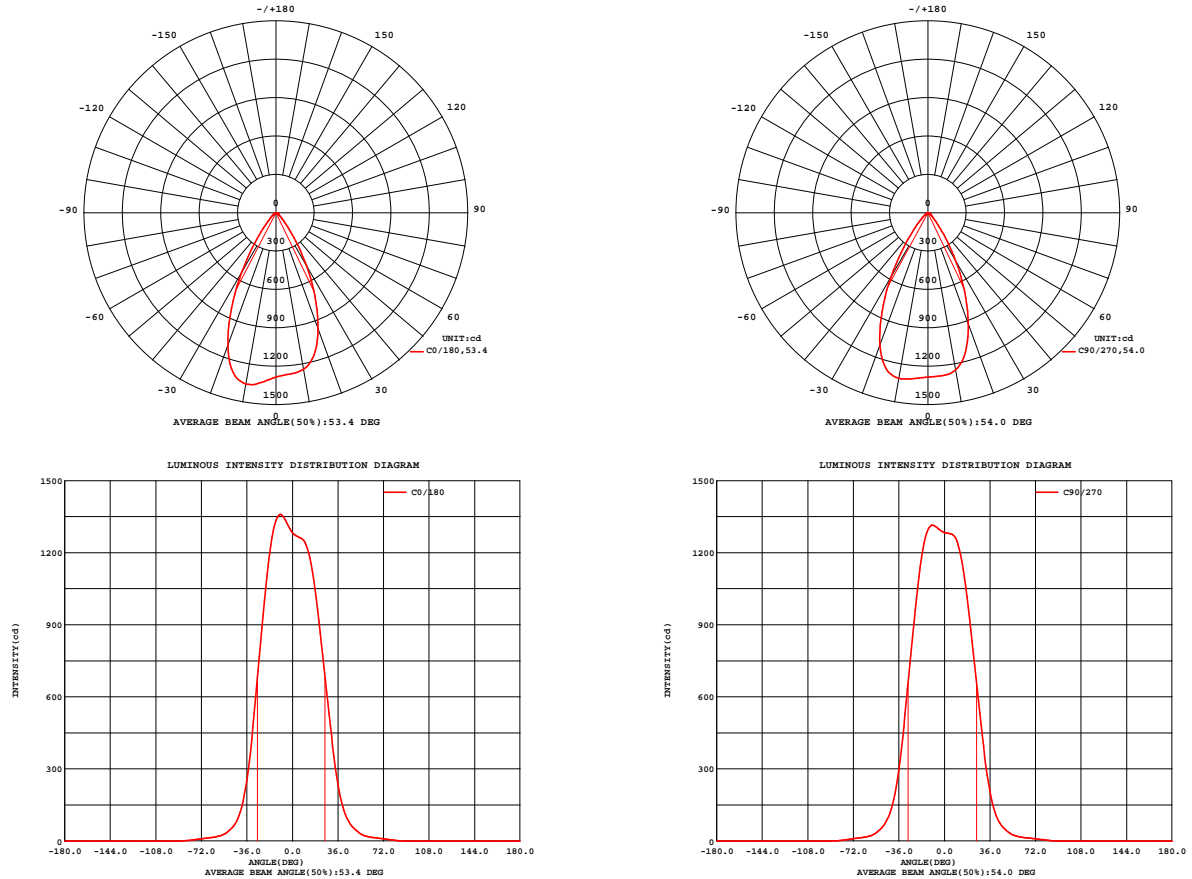


Fig. C0/C180

Fig. C90/C270

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Test Date: 2025-7-17

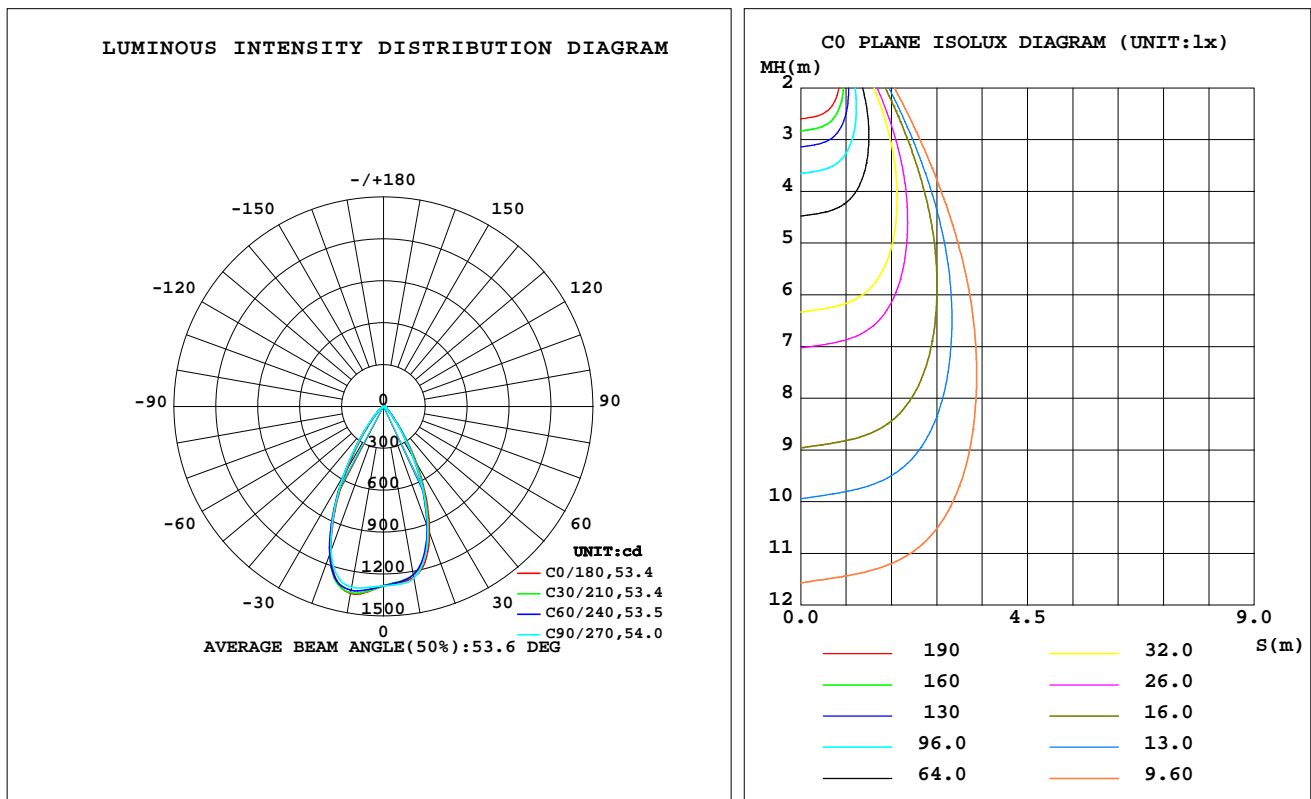
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.15V I:0.1164A P:13.878W PF:0.9911 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.511-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507170438
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.19 lm/W			
MODEL	Brideglux	I _{max} (cd)	1359	S/MH(C0/180)	0.84
NOMINAL POWER(W)	13	LOR(%)	81.9	S/MH(C90/270)	0.86
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1099.1	η UP,DN(C0-180)	0.0,38.2
NOMINAL FLUX(lm)	1342.44	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,43.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	81.9	CIBSE SHR MAX	0.85



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Humidity:65.0%
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Remarks: LAMP:BXRH-30G10T0-G-83 Ra:90
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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	1243	1225	1248	1310	1359	1345	1314	1280	0- 10	123.5	123.5	11.2,9.2
20	963.3	923.8	926.0	995.4	1104	1128	1102	1047	10- 20	333.9	457.4	41.6,34.1
30	481.9	451.8	439.4	459.7	535.5	570.5	578.7	547.0	20- 30	347.8	805.3	73.3,60
40	141.8	130.9	121.4	121.2	141.8	159.9	171.9	164.1	30- 40	183.3	988.5	89.9,73.6
50	46.17	42.55	39.57	38.77	42.76	47.46	51.51	51.05	40- 50	62.78	1051	95.7,78.3
60	17.90	17.31	16.96	16.81	17.55	18.61	19.18	18.92	50- 60	25.32	1077	98,80.2
70	10.46	10.23	10.13	10.09	10.53	10.67	10.75	10.76	60- 70	13.66	1090	99.2,81.2
80	3.602	3.950	4.170	4.021	3.954	3.624	3.467	3.543	70- 80	7.513	1098	99.9,81.8
90	0	0	0	0	0	0	0	0	80- 90	1.289	1099	100,81.9
100	0	0	0	0	0	0	0	0	90-100	0	1099	100,81.9
110	0	0	0	0	0	0	0	0	100-110	0	1099	100,81.9
120	0	0	0	0	0	0	0	0	110-120	0	1099	100,81.9
130	0	0	0	0	0	0	0	0	120-130	0	1099	100,81.9
140	0	0	0	0	0	0	0	0	130-140	0	1099	100,81.9
150	0	0	0	0	0	0	0	0	140-150	0	1099	100,81.9
160	0	0	0	0	0	0	0	0	150-160	0	1099	100,81.9
170	0	0	0	0	0	0	0	0	160-170	0	1099	100,81.9
180	0	0	0	0	0	0	0	0	170-180	0	1099	100,81.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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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-1084C 50R
DRIVER:PUP20A-1WMC 600mA

30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.15V I:0.1164A P:13.878W PF:0.9911 Freq:59.98Hz
Lamp Flux:1342.44x1 lm

NAME: 2218.511-LEA-28-H0

TYPE:

WEIGHT:

SPEC.: 3000K

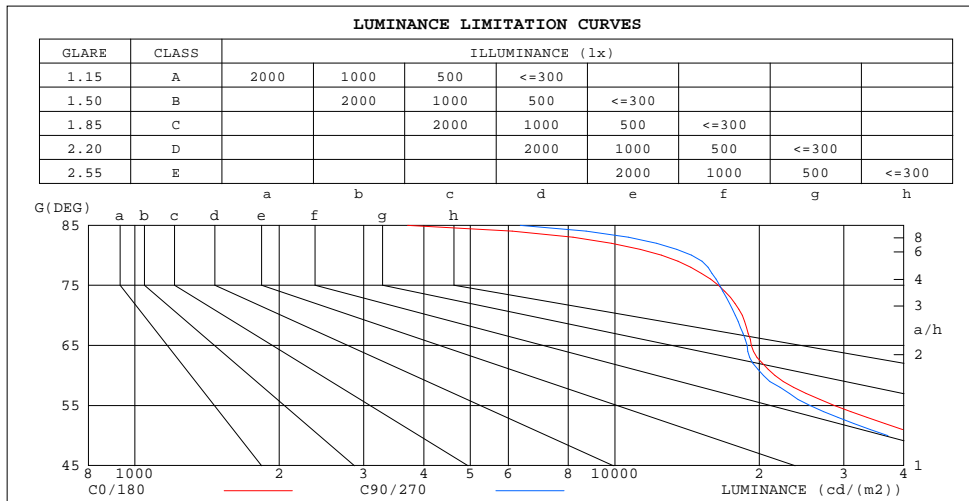
DIM.:

SERIAL No.: 2507170438

MFR.: RISE

SUR.: 0.00166106m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	LUMINANCE
85	6352	3702
80	14452	12496
75	16540	16422
70	17827	18427
65	18879	19250
60	20411	21562
55	25531	28690
50	37047	43273
45	56050	66531

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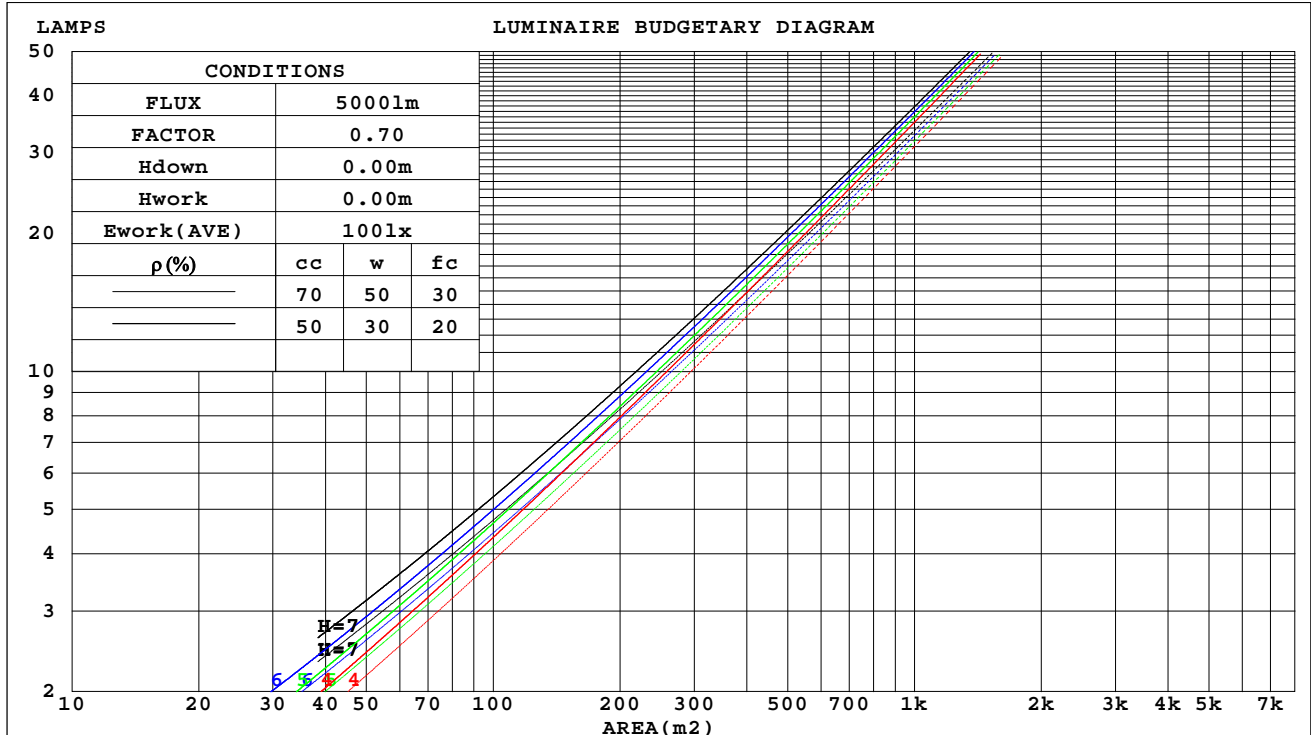
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507170438
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															



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30minutes warm-up

WEC AND CCEC

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NAME: 2218.511-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507170438
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	.150	.085	.027	.144	.082	.026	.134	.077	.024	.124	.072	.023	.115	.067	.022	
2.0	.143	.078	.024	.138	.076	.023	.129	.072	.022	.121	.068	.021	.114	.064	.020	
3.0	.135	.072	.022	.131	.070	.021	.124	.067	.020	.117	.064	.020	.111	.061	.019	
4.0	.128	.067	.020	.125	.065	.019	.119	.063	.019	.113	.060	.018	.107	.058	.018	
5.0	.122	.062	.018	.119	.061	.018	.113	.059	.017	.108	.057	.017	.103	.055	.017	
6.0	.116	.058	.017	.113	.057	.016	.108	.056	.016	.104	.054	.016	.100	.052	.016	
7.0	.111	.055	.015	.108	.054	.015	.104	.053	.015	.100	.051	.015	.096	.050	.015	
8.0	.106	.052	.015	.104	.051	.014	.100	.050	.014	.096	.049	.014	.093	.048	.014	
9.0	.101	.049	.014	.099	.048	.014	.096	.047	.013	.092	.046	.013	.089	.045	.013	
10.0	.097	.046	.013	.095	.046	.013	.092	.045	.013	.089	.044	.013	.086	.043	.012	

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	.156	.156	.156	.133	.133	.133	.091	.091	.091	.052	.052	.052	.017	.017	.017		
1.0	.140	.129	.118	.120	.111	.102	.082	.076	.070	.047	.044	.041	.015	.014	.013		
2.0	.128	.108	.092	.110	.093	.079	.075	.065	.055	.043	.038	.032	.014	.012	.011		
3.0	.118	.093	.073	.101	.080	.063	.070	.056	.044	.040	.033	.026	.013	.011	.009		
4.0	.110	.081	.059	.094	.070	.051	.065	.049	.036	.037	.029	.021	.012	.009	.007		
5.0	.103	.072	.049	.088	.062	.042	.061	.043	.030	.035	.025	.018	.011	.008	.006		
6.0	.097	.064	.041	.083	.055	.035	.057	.039	.025	.033	.023	.015	.011	.007	.005		
7.0	.091	.058	.034	.078	.050	.030	.054	.035	.021	.031	.021	.013	.010	.007	.004		
8.0	.086	.053	.029	.074	.046	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004		
9.0	.082	.048	.026	.071	.042	.022	.049	.030	.016	.029	.017	.009	.009	.006	.003		
10.0	.078	.045	.022	.068	.039	.020	.047	.027	.014	.027	.016	.008	.009	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:120.15V I:0.1164A P:13.878W PF:0.9911 Freq:59.98Hz Lamp Flux:1342.44x1 lm										
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SPEC.: 3000K					DIM.:			SERIAL No.: 2507170438		
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	21.1	22.0	21.3	22.2	22.4	20.5	21.4	20.7	21.6	21.8
3H	21.2	22.1	21.5	22.3	22.5	20.6	21.5	20.9	21.7	21.9
4H	21.3	22.1	21.6	22.4	22.6	20.7	21.6	21.0	21.8	22.0
6H	21.3	22.1	21.6	22.4	22.6	20.8	21.6	21.1	21.8	22.1
8H	21.3	22.1	21.6	22.3	22.6	20.8	21.6	21.1	21.8	22.1
12H	21.3	22.0	21.6	22.3	22.5	20.8	21.5	21.1	21.8	22.1
4H 2H	21.0	21.8	21.3	22.0	22.3	20.4	21.2	20.7	21.5	21.7
3H	21.2	22.0	21.6	22.2	22.5	20.7	21.4	21.0	21.7	22.0
4H	21.4	22.0	21.7	22.3	22.7	20.9	21.6	21.2	21.9	22.2
6H	21.5	22.1	21.9	22.4	22.7	21.1	21.6	21.4	22.0	22.3
8H	21.5	22.0	21.9	22.4	22.7	21.1	21.6	21.5	22.0	22.3
12H	21.4	21.9	21.9	22.3	22.7	21.1	21.5	21.5	21.9	22.3
8H 4H	21.4	21.9	21.8	22.3	22.6	20.9	21.4	21.3	21.8	22.2
6H	21.5	22.0	22.0	22.4	22.8	21.1	21.6	21.6	22.0	22.4
8H	21.5	21.9	22.0	22.3	22.8	21.2	21.6	21.6	22.0	22.4
12H	21.5	21.8	22.0	22.3	22.8	21.2	21.5	21.6	21.9	22.4
12H 4H	21.3	21.8	21.8	22.2	22.6	20.9	21.4	21.3	21.7	22.1
6H	21.5	21.9	22.0	22.3	22.7	21.1	21.5	21.6	21.9	22.4
8H	21.5	21.9	22.0	22.3	22.8	21.2	21.5	21.6	21.9	22.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.1 / - 2.5					+ 1.7 / - 2.2				
1.5H	+ 3.5 / - 2.3					+ 3.1 / - 2.0				
2.0H	+ 2.9 / - 1.5					+ 2.3 / - 1.2				

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.: 2507170438
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	70	64	61	69	64	61	69	64	61	58
0.80	76	71	68	76	71	68	75	70	67	64
1.00	80	75	72	79	75	72	78	75	71	68
1.25	83	79	76	83	78	76	81	77	75	71
1.50	86	82	79	85	81	78	83	80	77	74
2.00	88	85	82	87	84	81	85	82	80	76
2.50	90	86	84	88	85	83	86	83	81	77
3.00	91	88	86	90	87	85	87	85	83	78
4.00	93	90	88	91	89	87	88	86	85	79
5.00	94	92	90	92	90	89	89	88	86	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

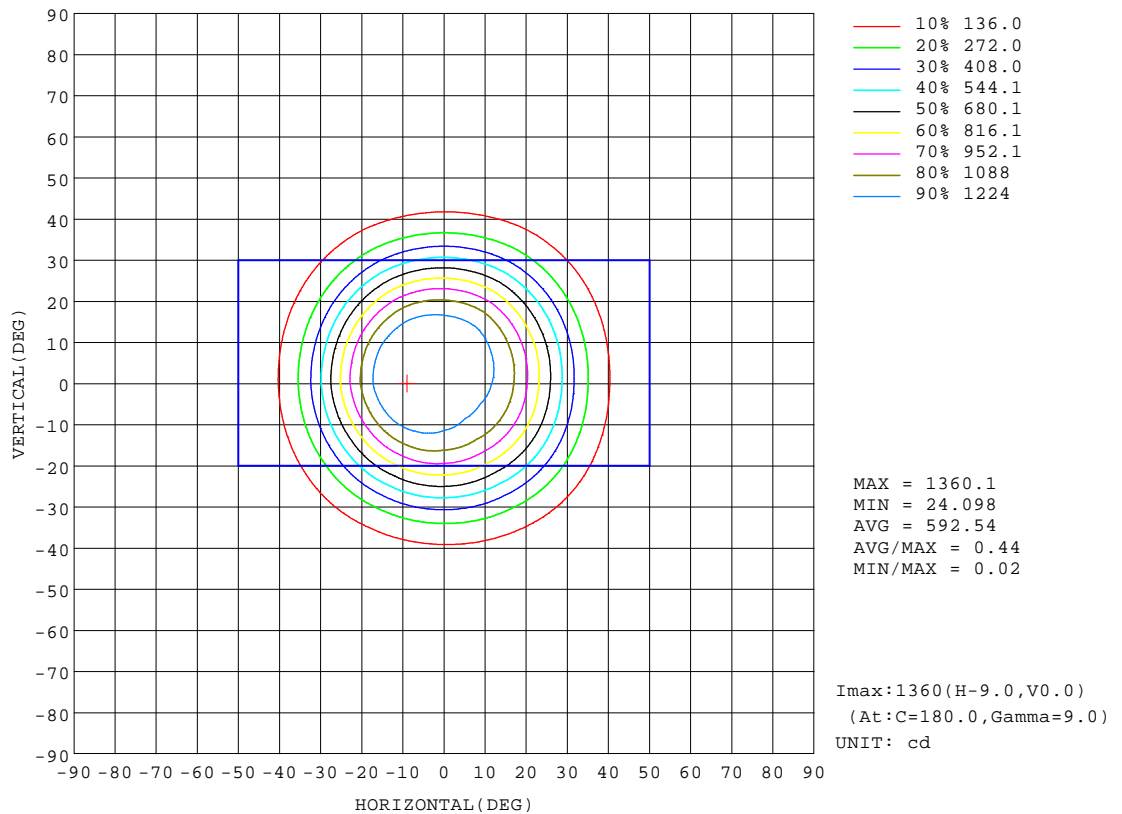
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ISOCANDELA DIAGRAM

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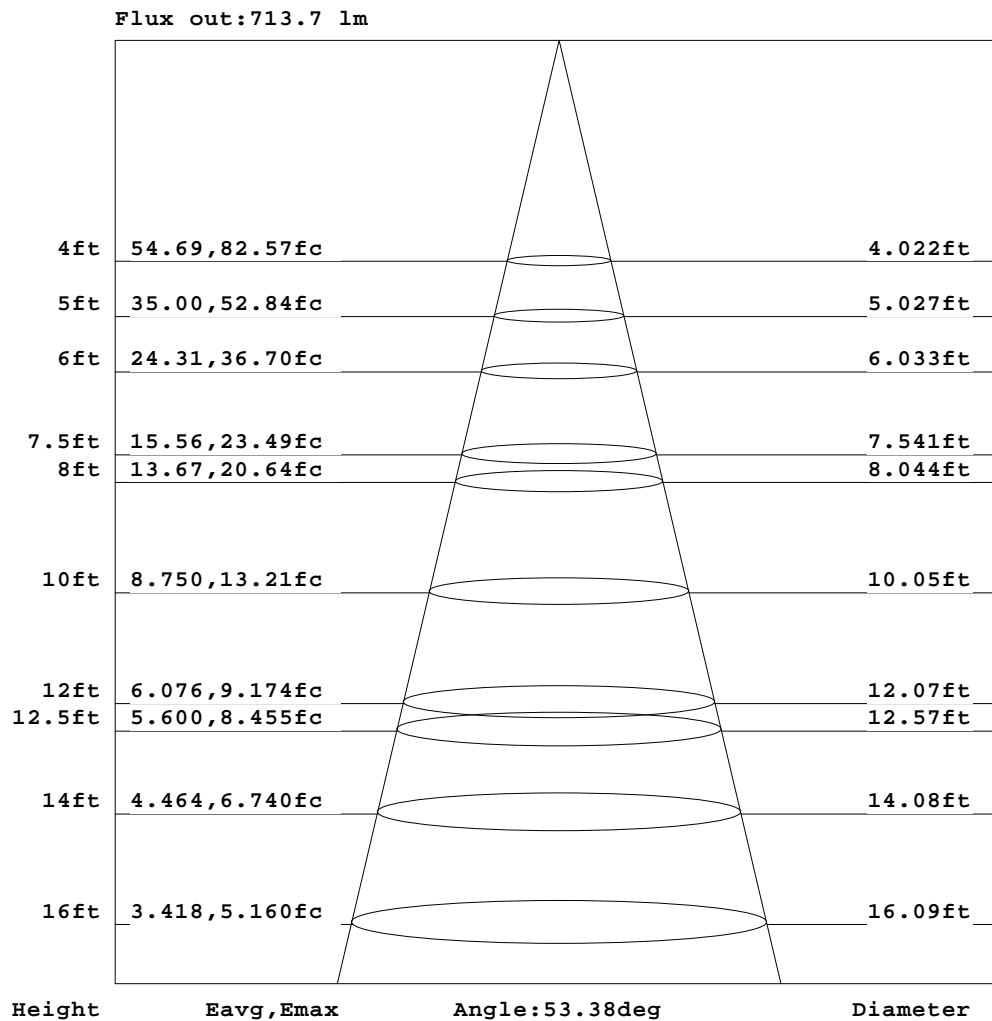
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AAI Figure

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

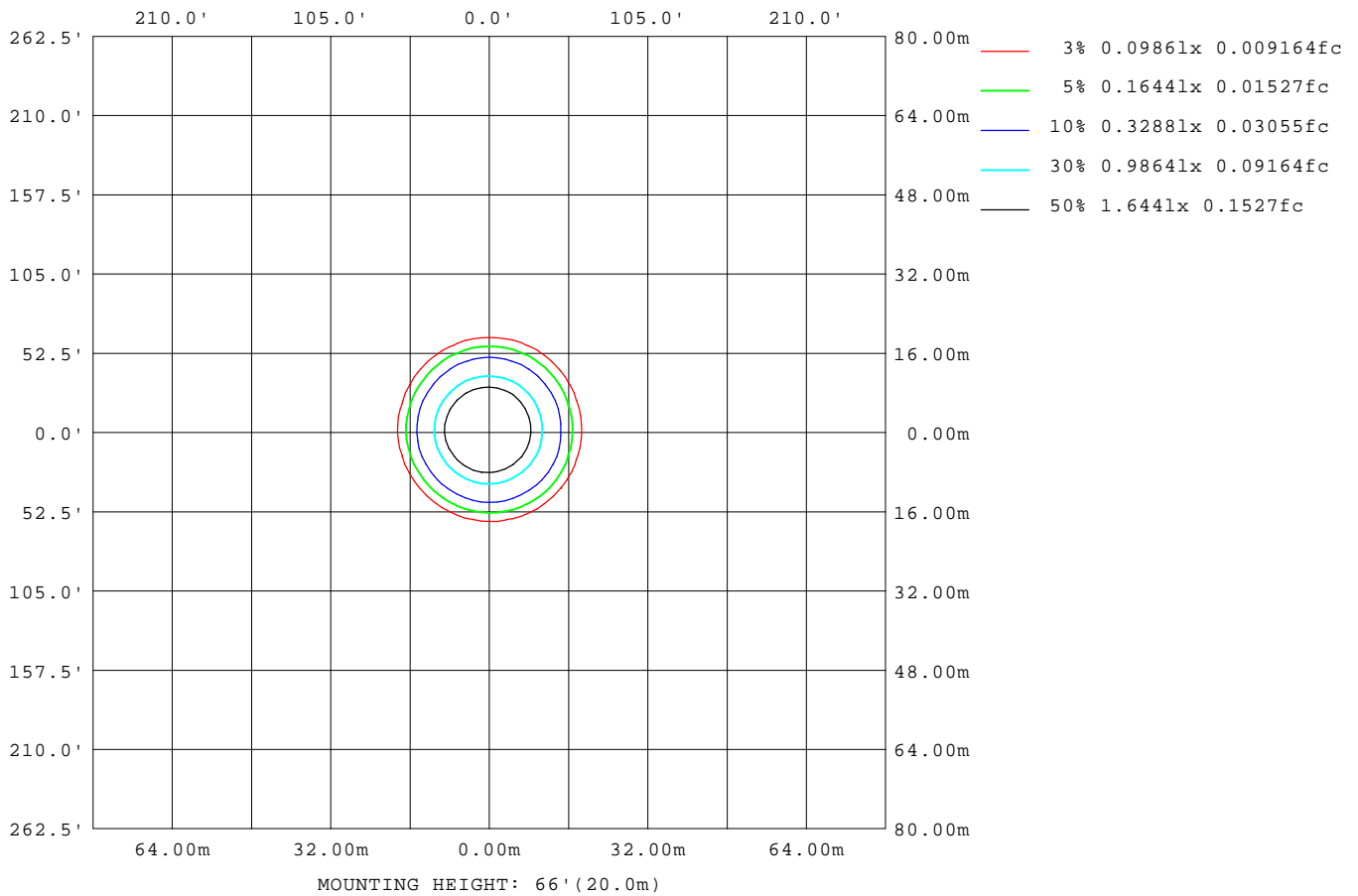
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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2507170438
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-7-17

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-1084C 50R
DRIVER: PUP20A-1WMC 600mA

30minutes warm-up

LED Avg.L Report

Test:U:120.15V I:0.1164A P:13.878W PF:0.9911 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.511-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507170438
MFR.: RISE	SUR.: 0.00166106m2	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	19187
L_0~180(75)av	16705
L_0~180(85)av	4859
L_90~270(65)av	19635
L_90~270(75)av	16441
L_90~270(85)av	4646
L_45(65)av	19417
L_45(75)av	16597
L_45(85)av	4654

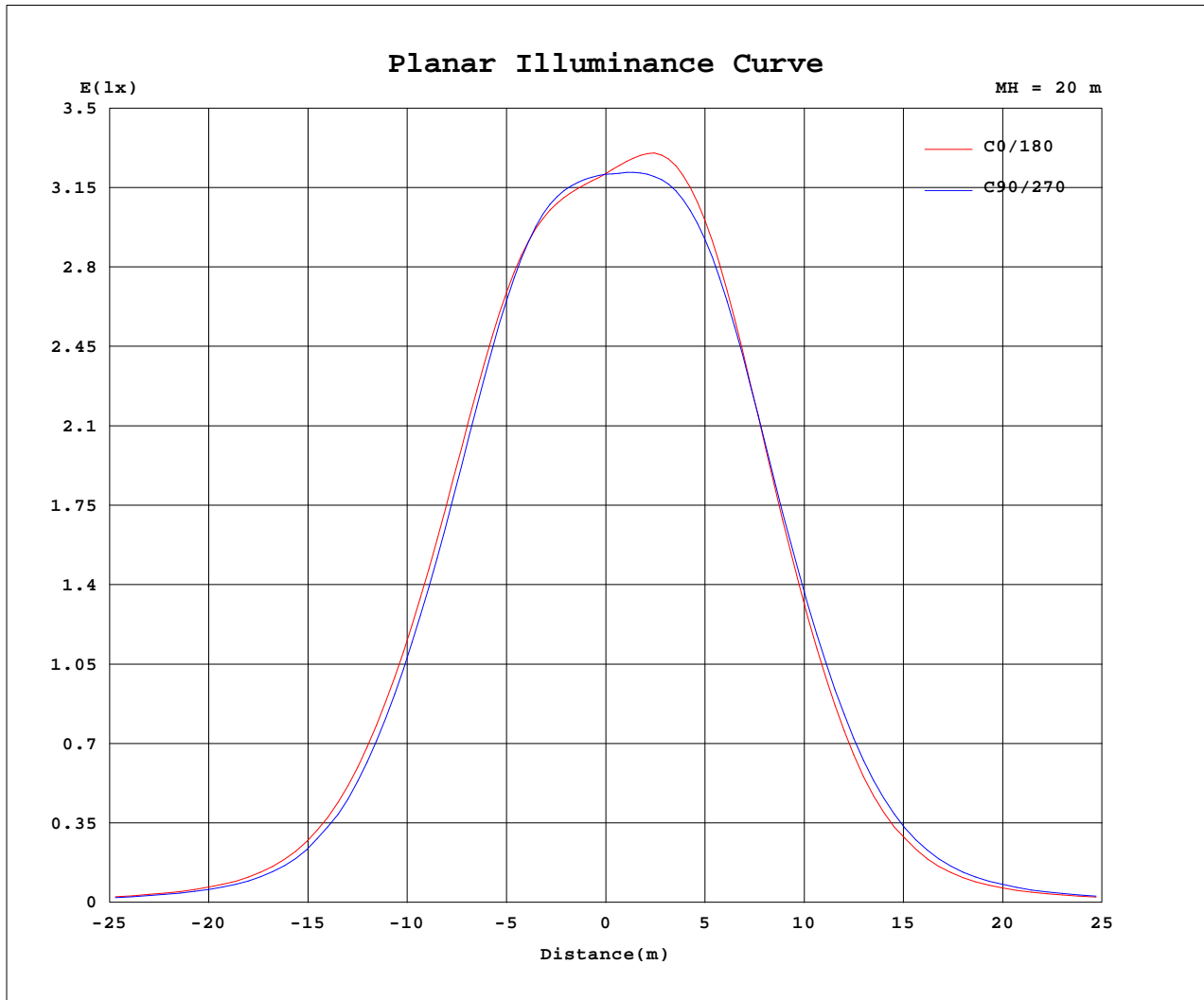
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-7-17

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-1084C 50R
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: 2025-7-17

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-1084C 50R
 DRIVER: PUP20A-1WMC 600mA

30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.15V I:0.1164A P:13.878W PF:0.9911 Freq:59.98Hz Lamp Flux:1342.44x1 lm		
NAME: 2218.511-LEA-28-H0	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2507170438
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	1284	1284	1284	1284	1284	1284	1284	1284	1284	1284	1284	1284						
5	1265	1258	1262	1278	1301	1323	1331	1329	1317	1301	1287	1275						
10	1243	1224	1225	1248	1288	1332	1359	1353	1336	1314	1293	1268						
15	1151	1127	1112	1133	1179	1242	1294	1304	1293	1263	1241	1192						
20	963	937	911	926	963	1028	1104	1126	1129	1102	1080	1015						
25	722	699	670	681	701	750	827	850	865	850	831	770						
30	482	465	438	439	445	475	535	559	582	579	570	524						
35	274	264	245	243	237	254	289	308	332	335	333	302						
40	142	136	126	121	117	125	142	153	167	172	172	156						
45	78.1	72.7	68.5	65.9	63.5	65.7	72.4	79.6	85.5	90.6	89.7	84.9						
50	46.2	43.8	41.3	39.6	38.1	39.4	42.8	45.4	49.6	51.5	52.2	49.9						
55	27.3	26.4	25.0	24.3	23.6	24.2	25.7	27.1	29.4	30.3	30.6	29.2						
60	17.9	17.5	17.1	17.0	16.7	16.9	17.5	18.0	19.2	19.2	19.4	18.5						
65	13.5	13.3	13.2	13.3	13.1	13.2	13.4	13.7	14.2	14.3	14.3	14.0						
70	10.5	10.3	10.2	10.1	10.0	10.2	10.5	10.6	10.8	10.8	10.8	10.7						
75	7.06	7.24	7.17	7.11	7.05	7.21	7.31	7.11	7.10	7.02	7.10	7.10						
80	3.60	3.88	4.02	4.17	4.06	3.98	3.95	3.67	3.58	3.47	3.52	3.57						
85	0.54	0.73	0.81	0.92	0.88	0.87	0.87	0.64	0.53	0.43	0.45	0.49						
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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Operators:zoe
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γ Range: 0 - 180DEG
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