

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P998884

Luminaire Tested: SA2XXDIP-B675D725UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998884
REPORT IS A COMBINATION OF REPORTS P984630 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B675D725UB30-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

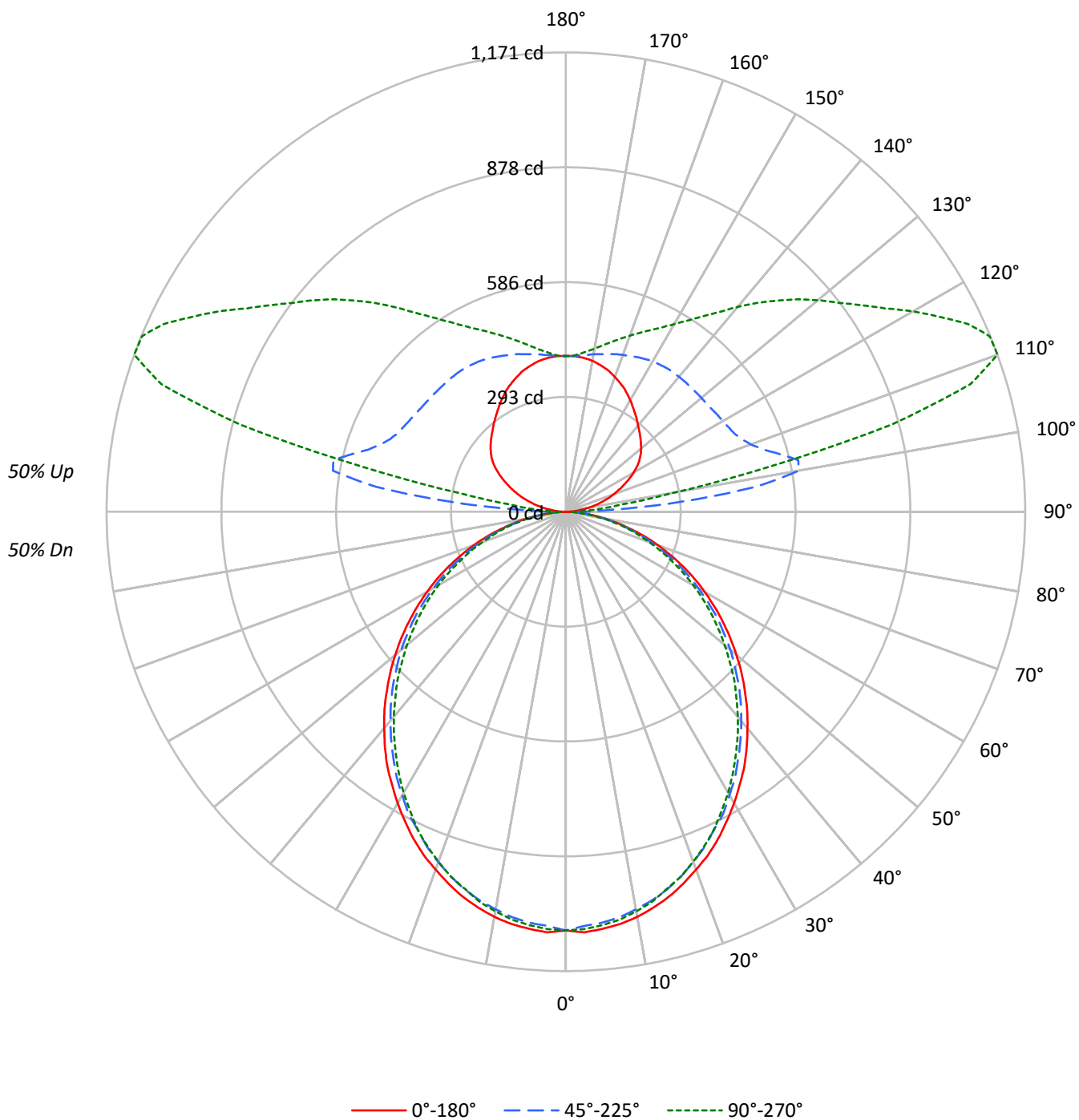
Lumens per Lamp: N/A
Luminaire Lumens: 5485.2 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P998884

CATALOG NUMBER: SA2XXDIP-B675D725UB30-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40
3	81	72	64	58	75	66	60	55	56	51	47	47	43	40	38	36	34
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29
5	68	57	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	22	20
8	54	42	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16891	16891	16891
5°	16919	16102	15987
10°	16782	15368	15062
15°	16536	14627	14090
20°	16204	13824	13168
25°	15873	12984	12249
30°	15456	12195	11284
35°	15064	11362	10336
40°	14578	10541	9441
45°	14096	9725	8563
50°	13569	8896	7650
55°	13014	8010	6787
60°	12393	7049	5890
65°	11710	6075	4946
70°	10844	5005	3993
75°	9644	3859	3084
80°	8191	2622	1985
85°	5947	1220	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14096 cd/sqm

TEST NUMBER: P998884

CATALOG NUMBER: SA2XXDIP-B675D725UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.8
10°-20°	282.6	5.2
20°-30°	415.3	7.6
30°-40°	482.3	8.8
40°-50°	481.7	8.8
50°-60°	420.0	7.7
60°-70°	310.5	5.7
70°-80°	175.7	3.2
80°-90°	48.9	0.9
90°-100°	160.9	2.9
100°-110°	544.0	9.9
110°-120°	571.8	10.4
120°-130°	470.2	8.6
130°-140°	377.9	6.9
140°-150°	285.5	5.2
150°-160°	200.7	3.7
160°-170°	118.2	2.2
170°-180°	38.4	0.7
0°-30°	798.3	14.6
0°-40°	1280.6	23.3
0°-60°	2182.4	39.8
0°-90°	2717.5	49.5
90°-120°	1276.8	23.3
90°-150°	2410.4	43.9
90°-180°	2768.0	50.5
0°-180°	5485.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1067	1063	1052	1060	1058	101
15°	1016	1010	996	1000	995	286
25°	919	911	894	896	894	423
35°	793	783	766	760	755	495
45°	645	638	623	612	608	498
55°	488	482	470	458	452	437
65°	329	323	313	304	299	326
75°	172	170	165	159	161	184
85°	42	41	40	37	36	47
90°	1	10	26	25	25	4
95°	27	66	299	113	87	28
105°	93	140	566	1011	860	99
115°	164	207	473	977	1132	163
125°	229	271	455	791	918	204
135°	269	321	450	665	761	208
145°	307	353	447	555	608	193
155°	349	377	434	491	511	161
165°	380	392	416	441	448	107
175°	396	397	400	405	404	38
180°	397	397	397	397	397	

TEST NUMBER: P998884

CATALOG NUMBER: SA2XXDIP-B675D725UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.1	1067.1	1067.1	1067.1	1067.1
2.5°	1073.3	1068.2	1056.9	1067.1	1065.1
5°	1067.1	1063.0	1051.8	1060.0	1057.9
7.5°	1060.0	1053.8	1042.5	1050.7	1048.7
10°	1048.7	1041.5	1029.2	1037.4	1034.3
12.5°	1033.3	1027.1	1014.8	1019.9	1017.9
15°	1015.8	1009.7	996.3	1000.5	995.3
17.5°	994.3	988.1	974.8	979.9	974.8
20°	970.7	964.5	950.2	953.3	949.1
22.5°	947.1	937.9	924.5	924.5	922.5
25°	919.4	911.2	893.7	895.8	893.7
27.5°	888.6	881.4	868.1	865.0	859.9
30°	857.8	849.6	834.2	831.1	827.0
32.5°	825.0	818.8	802.4	796.3	792.2
35°	793.2	782.9	766.5	760.3	755.2
37.5°	757.3	748.0	731.6	724.4	719.3
40°	720.3	712.1	695.7	686.5	682.4
42.5°	684.4	676.2	659.8	649.5	643.4
45°	645.4	638.2	622.8	611.6	607.5
47.5°	607.5	600.3	583.9	572.6	566.4
50°	567.4	562.3	547.9	533.6	528.4
52.5°	528.4	521.3	507.9	496.6	489.5
55°	488.4	482.3	470.0	457.6	452.5
57.5°	448.4	443.3	429.9	417.6	413.5
60°	408.4	404.3	389.9	378.6	375.6
62.5°	369.4	362.2	352.0	341.7	337.6
65°	329.4	323.2	313.0	303.7	298.6
67.5°	288.3	283.2	274.0	266.8	262.7
70°	250.4	246.3	237.0	229.8	225.7
72.5°	211.4	207.3	202.1	195.0	191.9
75°	172.4	170.3	165.2	159.0	161.1
77.5°	137.5	133.4	131.3	128.3	125.2
80°	102.6	101.6	99.5	96.5	94.4
82.5°	69.8	69.8	68.7	64.6	64.6
85°	42.1	41.0	40.0	36.9	35.9
87.5°	18.5	16.4	14.4	11.3	10.3
90°	0.8	10.4	26.0	24.8	25.2
92.5°	11.5	36.3	117.6	54.2	46.6
95°	26.7	65.6	299.2	113.0	87.0
97.5°	39.7	86.6	487.8	226.7	145.8
100°	58.8	106.1	603.1	451.6	273.3
102.5°	76.3	123.7	606.9	763.4	532.8
105°	93.1	140.5	565.7	1011.1	860.3
107.5°	111.5	157.2	527.5	1100.8	1081.0
110°	129.8	174.4	501.5	1086.3	1171.0

TEST NUMBER: P998884

CATALOG NUMBER: SA2XXDIP-B675D725UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.6	190.9	484.8	1037.0	1169.5
115°	164.1	207.3	473.3	976.8	1132.1
117.5°	182.4	223.7	467.2	919.1	1075.6
120°	199.2	239.7	461.8	867.6	1021.4
122.5°	215.3	256.1	458.8	827.5	964.9
125°	229.0	271.0	455.0	791.2	918.4
127.5°	240.5	285.2	452.7	760.4	874.8
130°	250.4	297.7	451.2	729.0	839.0
132.5°	259.6	309.9	450.4	696.6	801.6
135°	268.7	320.6	449.6	664.9	761.1
137.5°	277.1	329.8	449.6	632.8	722.2
140°	287.0	338.2	448.9	604.6	681.7
142.5°	297.0	345.0	448.9	577.5	641.2
145°	306.9	352.7	447.3	555.3	607.7
147.5°	317.6	358.8	445.1	535.9	577.9
150°	328.3	364.9	442.8	519.1	551.9
152.5°	338.9	371.0	438.9	505.0	529.8
155°	348.9	376.8	434.4	491.2	510.7
157.5°	357.3	381.3	429.8	478.2	493.9
160°	365.7	385.9	425.2	465.3	477.9
162.5°	374.1	389.4	421.4	453.1	462.6
165°	380.2	391.6	416.0	441.2	448.1
167.5°	385.5	393.9	411.5	430.6	434.4
170°	390.9	395.0	407.6	420.6	422.2
172.5°	393.9	396.2	403.1	411.8	412.2
175°	396.2	396.6	400.0	405.0	403.8
177.5°	397.7	397.0	397.0	400.0	397.7
180°	397.0	397.0	397.0	397.0	397.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	15.01	15.87	15.98	16.85	18.13	15.80	16.65	16.76	17.63	18.91
	3H	16.35	17.12	17.32	18.11	19.41	17.42	18.19	18.39	19.18	20.48
	4H	16.76	17.48	17.74	18.47	19.78	18.01	18.74	19.00	19.73	21.04
	6H	16.98	17.65	17.97	18.64	19.96	18.42	19.09	19.41	20.08	21.40
	8H	17.01	17.64	18.01	18.65	19.97	18.52	19.16	19.53	20.17	21.49
	12H	17.00	17.60	18.00	18.61	19.95	18.57	19.18	19.58	20.18	21.52
4H	2H	15.48	16.21	16.47	17.20	18.51	16.13	16.85	17.12	17.84	19.15
	3H	17.00	17.61	18.00	18.63	19.95	17.91	18.51	18.91	19.53	20.85
	4H	17.51	18.06	18.51	19.07	20.42	18.59	19.14	19.60	20.15	21.50
	6H	17.81	18.29	18.83	19.32	20.66	19.08	19.56	20.10	20.60	21.94
	8H	17.86	18.31	18.89	19.34	20.70	19.23	19.67	20.25	20.70	22.06
	12H	17.86	18.27	18.90	19.31	20.67	19.29	19.69	20.33	20.73	22.10
8H	4H	17.68	18.13	18.70	19.15	20.51	18.67	19.12	19.69	20.15	21.50
	6H	18.06	18.43	19.11	19.50	20.86	19.24	19.61	20.29	20.68	22.03
	8H	18.17	18.49	19.22	19.55	20.92	19.43	19.75	20.48	20.81	22.18
	12H	18.20	18.48	19.26	19.53	20.95	19.53	19.81	20.58	20.86	22.28
12H	4H	17.66	18.07	18.70	19.11	20.47	18.64	19.04	19.68	20.08	21.44
	6H	18.08	18.41	19.13	19.46	20.84	19.23	19.56	20.29	20.61	21.99
	8H	18.19	18.48	19.25	19.53	20.95	19.43	19.71	20.49	20.76	22.18