

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: P998944

Luminaire Tested: SA2XXDIP-B675D925UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998944
REPORT IS A COMBINATION OF REPORTS P984690 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B675D925UB30-4F0-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

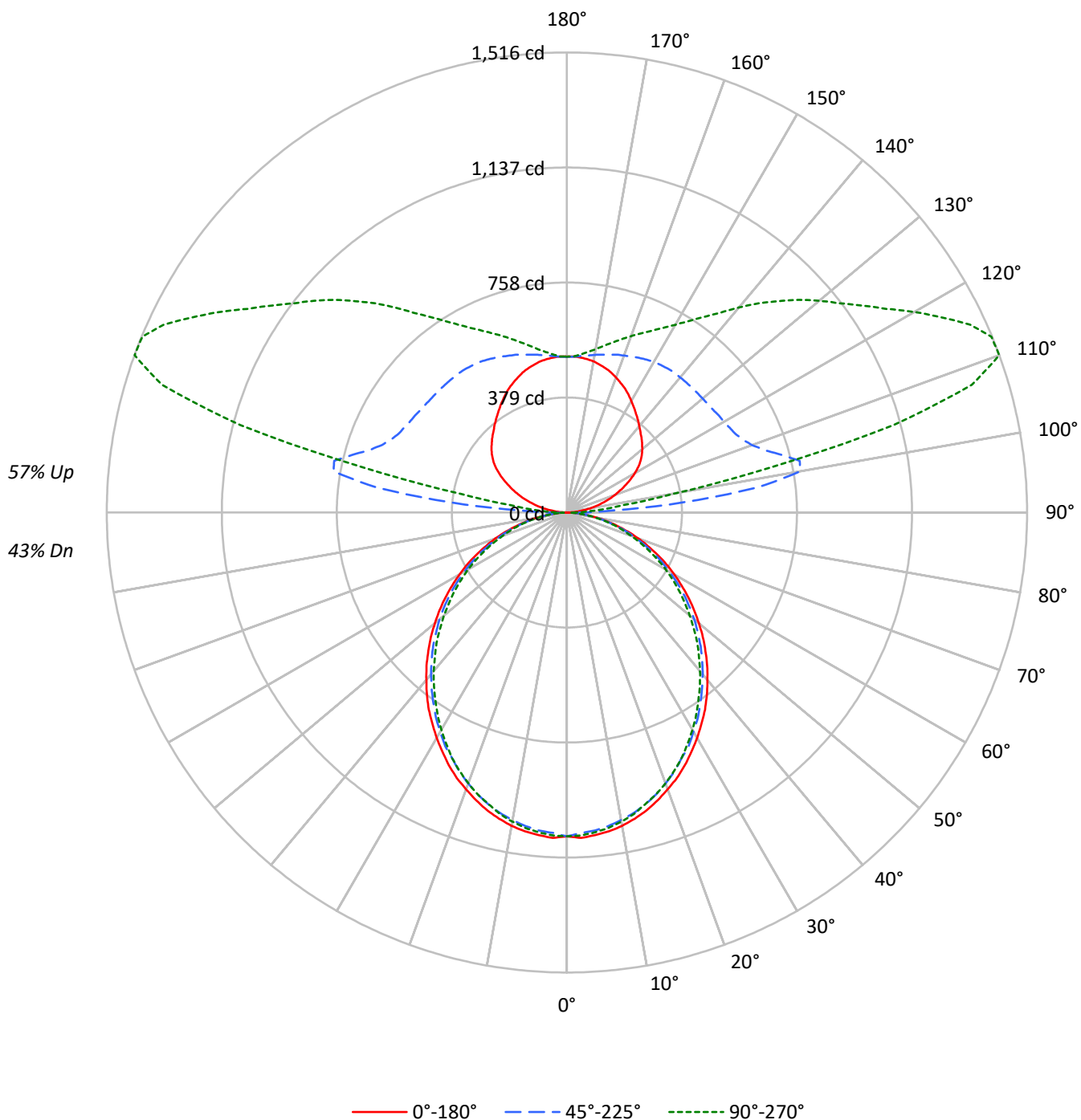
Lumens per Lamp: N/A
Luminaire Lumens: 6300.1 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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

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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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42
2	88	80	74	69	80	74	68	64	61	57	54	49	47	44	39	37	35
3	80	71	63	58	73	65	58	53	54	49	45	44	40	38	34	32	30
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	38	33	29	32	28	24	25	22	20
7	57	45	37	32	52	41	34	30	35	29	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.6
10°-20°	282.6	4.5
20°-30°	415.3	6.6
30°-40°	482.3	7.7
40°-50°	481.7	7.6
50°-60°	420.0	6.7
60°-70°	310.5	4.9
70°-80°	175.7	2.8
80°-90°	49.6	0.8
90°-100°	208.3	3.3
100°-110°	704.1	11.2
110°-120°	740.1	11.7
120°-130°	608.6	9.7
130°-140°	489.0	7.8
140°-150°	369.4	5.9
150°-160°	259.7	4.1
160°-170°	152.9	2.4
170°-180°	49.7	0.8
0°-30°	798.3	12.7
0°-40°	1280.6	20.3
0°-60°	2182.4	34.6
0°-90°	2718.3	43.1
90°-120°	1652.4	26.2
90°-150°	3119.5	49.5
90°-180°	3582.0	56.9
0°-180°	6300.1	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	13	34	32	33	5
95°	35	85	387	146	113	36
105°	120	182	732	1309	1113	128
115°	212	268	612	1264	1465	211
125°	296	351	589	1024	1188	263
135°	348	415	582	861	985	269
145°	397	456	579	719	786	249
155°	452	488	562	636	661	208
165°	492	507	538	571	580	139
175°	513	513	518	524	523	49
180°	514	514	514	514	514	

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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°	1.0	13.4	33.6	32.1	32.6
92.5°	14.8	47.0	152.1	70.2	60.3
95°	34.6	84.9	387.3	146.2	112.6
97.5°	51.4	112.2	631.3	293.5	188.7
100°	76.1	137.4	780.5	584.4	353.7
102.5°	98.8	160.0	785.4	988.0	689.6
105°	120.5	181.8	732.1	1308.6	1113.4
107.5°	144.2	203.6	682.7	1424.6	1399.0
110°	168.0	225.8	649.1	1405.9	1515.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.7	247.0	627.4	1342.2	1513.6
115°	212.4	268.2	612.5	1264.1	1465.1
117.5°	236.1	289.5	604.6	1189.5	1392.0
120°	257.9	310.2	597.7	1122.8	1321.9
122.5°	278.6	331.5	593.8	1071.0	1248.8
125°	296.4	350.8	588.8	1024.0	1188.5
127.5°	311.2	369.0	585.9	984.0	1132.2
130°	324.1	385.3	583.9	943.5	1085.8
132.5°	335.9	401.1	582.9	901.5	1037.4
135°	347.8	415.0	581.9	860.6	985.0
137.5°	358.6	426.8	581.9	819.0	934.6
140°	371.5	437.6	580.9	782.4	882.2
142.5°	384.3	446.6	580.9	747.4	829.9
145°	397.2	456.4	578.9	718.8	786.4
147.5°	411.0	464.4	576.0	693.6	747.9
150°	424.8	472.2	573.0	671.8	714.3
152.5°	438.7	480.2	568.1	653.5	685.6
155°	451.5	487.6	562.2	635.8	660.9
157.5°	462.4	493.5	556.2	619.0	639.2
160°	473.2	499.4	550.3	602.2	618.5
162.5°	484.1	503.8	545.4	586.3	598.7
165°	492.0	506.8	538.4	571.0	579.9
167.5°	498.9	509.8	532.5	557.2	562.2
170°	505.8	511.3	527.6	544.4	546.3
172.5°	509.8	512.8	521.6	533.0	533.5
175°	512.8	513.2	517.7	524.1	522.6
177.5°	514.7	513.7	513.7	517.7	514.7
180°	513.7	513.7	513.7	513.7	513.7

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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	14.39	15.19	15.40	16.21	17.58	15.17	15.97	16.18	17.00	18.36
	3H	15.72	16.44	16.74	17.47	18.86	16.79	17.51	17.81	18.54	19.93
	4H	16.12	16.81	17.16	17.84	19.23	17.38	18.06	18.42	19.10	20.49
	6H	16.34	16.97	17.39	18.01	19.41	17.78	18.41	18.83	19.45	20.85
	8H	16.37	16.97	17.42	18.02	19.42	17.89	18.49	18.94	19.54	20.94
	12H	16.36	16.93	17.41	17.97	19.40	17.93	18.50	18.99	19.55	20.97
4H	2H	14.85	15.53	15.89	16.57	17.96	15.49	16.18	16.54	17.21	18.60
	3H	16.36	16.93	17.41	17.99	19.40	17.27	17.84	18.32	18.90	20.31
	4H	16.87	17.39	17.92	18.44	19.87	17.95	18.47	19.00	19.52	20.95
	6H	17.16	17.61	18.23	18.69	20.11	18.44	18.89	19.51	19.97	21.39
	8H	17.22	17.64	18.29	18.71	20.15	18.58	19.00	19.65	20.07	21.51
	12H	17.22	17.60	18.30	18.68	20.12	18.64	19.02	19.72	20.10	21.55
8H	4H	17.04	17.45	18.10	18.52	19.96	18.03	18.45	19.09	19.52	20.96
	6H	17.42	17.76	18.51	18.87	20.31	18.59	18.94	19.68	20.05	21.49
	8H	17.52	17.82	18.62	18.92	20.37	18.78	19.09	19.88	20.18	21.64
	12H	17.55	17.82	18.65	18.91	20.40	18.88	19.14	19.98	20.24	21.73
12H	4H	17.02	17.39	18.10	18.48	19.92	17.99	18.37	19.07	19.45	20.90
	6H	17.43	17.74	18.53	18.83	20.29	18.59	18.89	19.68	19.98	21.44
	8H	17.54	17.81	18.65	18.90	20.40	18.78	19.05	19.88	20.14	21.63