

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: P998941

Luminaire Tested: SA2XXDIP-B675D925UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998941
REPORT IS A COMBINATION OF REPORTS P984687 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-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

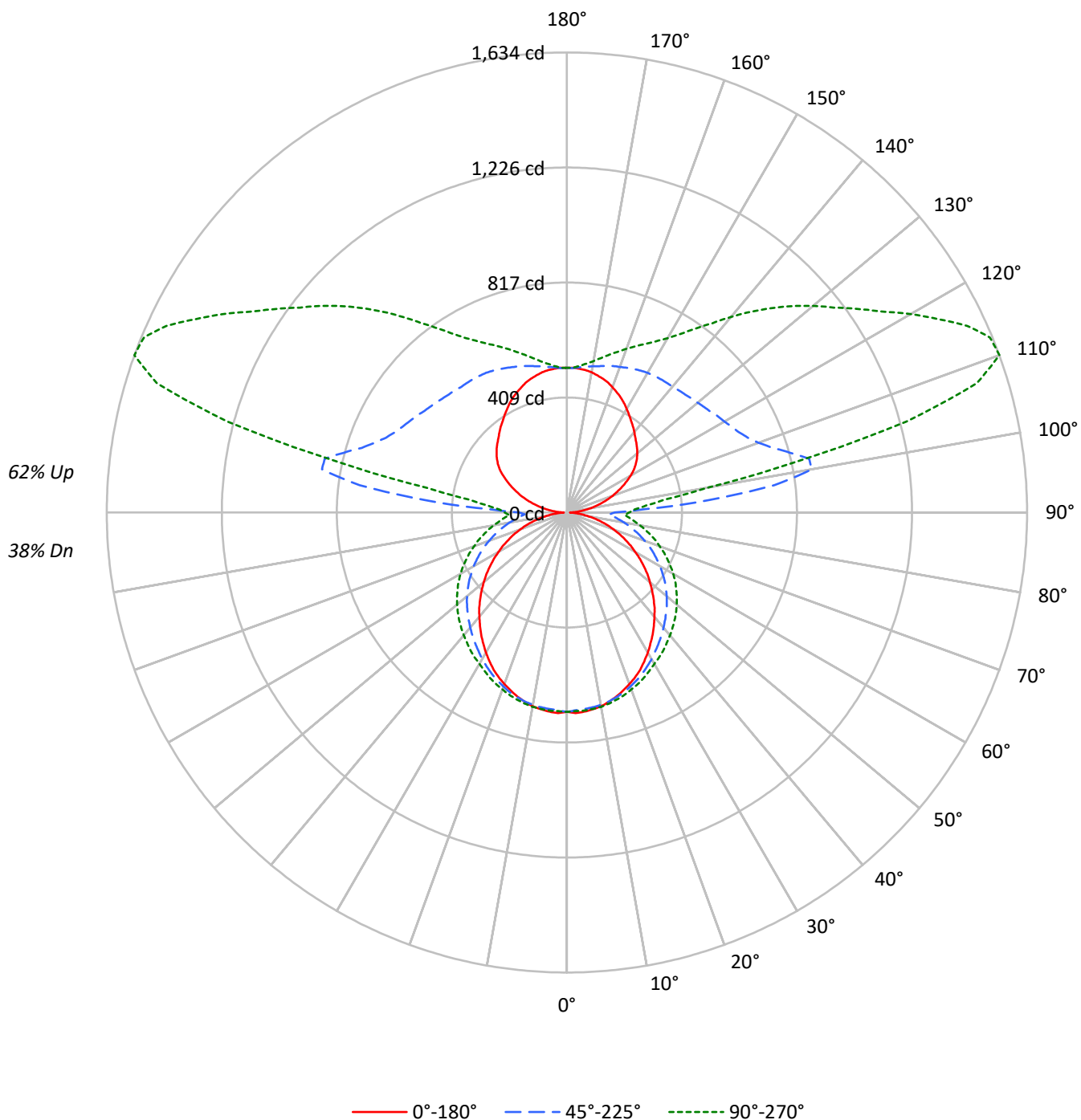
Lumens per Lamp: N/A
Luminaire Lumens: 6287.2 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	94	89	85	81	85	81	77	74	66	63	61	51	50	48	38	37	36
2	85	77	71	65	77	70	65	60	57	53	49	44	42	39	33	31	29
3	77	67	60	54	70	61	55	49	50	45	41	39	35	32	29	26	24
4	71	59	51	45	64	54	47	41	44	39	34	34	31	27	26	23	21
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18
6	59	47	39	33	53	43	36	30	35	29	25	28	24	20	21	18	16
7	55	42	34	29	49	39	32	26	32	26	22	25	21	18	19	16	14
8	51	38	30	25	46	35	28	23	29	23	20	23	19	16	17	14	12
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11
10	44	32	25	20	40	29	23	18	24	19	15	19	15	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.1
10°-20°	192.5	3.1
20°-30°	291.7	4.6
30°-40°	355.2	5.7
40°-50°	382.2	6.1
50°-60°	371.2	5.9
60°-70°	324.2	5.2
70°-80°	249.5	4.0
80°-90°	170.4	2.7
90°-100°	323.5	5.1
100°-110°	788.3	12.5
110°-120°	795.7	12.7
120°-130°	639.5	10.2
130°-140°	502.0	8.0
140°-150°	371.6	5.9
150°-160°	259.7	4.1
160°-170°	152.9	2.4
170°-180°	49.7	0.8
0°-30°	551.4	8.8
0°-40°	906.6	14.4
0°-60°	1660.0	26.4
0°-90°	2404.1	38.2
90°-120°	1907.5	30.3
90°-150°	3420.7	54.4
90°-180°	3883.0	61.8
0°-180°	6287.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	83	169	209	221	9
95°	43	141	505	303	282	42
105°	126	217	820	1433	1249	134
115°	216	284	674	1356	1569	214
125°	298	353	624	1087	1260	266
135°	349	416	593	893	1026	270
145°	397	456	579	725	798	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°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	11.3	83.2	169.1	208.6	221.4
92.5°	24.0	110.6	278.3	236.4	238.9
95°	42.8	141.4	505.3	303.2	281.9
97.5°	58.6	163.4	742.1	442.3	349.8
100°	83.3	182.6	883.1	725.0	505.6
102.5°	105.0	200.0	880.8	1120.4	833.3
105°	125.6	216.7	820.4	1432.8	1248.9
107.5°	149.3	233.4	763.8	1540.6	1526.3
110°	172.1	250.4	724.0	1513.7	1634.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	193.8	267.5	695.1	1442.8	1625.5
115°	216.5	283.6	674.1	1356.5	1568.8
117.5°	239.2	300.8	659.0	1274.7	1487.4
120°	261.0	317.4	645.9	1199.8	1410.2
122.5°	281.7	335.6	635.9	1140.8	1327.8
125°	298.5	352.8	623.7	1086.6	1260.3
127.5°	313.3	370.0	614.6	1038.4	1195.8
130°	326.2	386.3	606.5	990.7	1141.2
132.5°	338.0	402.1	599.3	941.5	1085.6
135°	348.8	416.0	593.2	893.4	1026.1
137.5°	359.6	427.8	588.1	844.7	967.4
140°	372.5	437.6	583.0	801.0	906.8
142.5°	385.3	446.6	580.9	759.7	847.3
145°	397.2	456.4	578.9	725.0	797.7
147.5°	411.0	464.4	576.0	694.6	752.0
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	12.42	13.22	13.47	14.28	15.71	15.50	16.30	16.54	17.36	18.78
	3H	13.88	14.60	14.93	15.67	17.11	18.09	18.81	19.14	19.87	21.32
	4H	14.35	15.04	15.42	16.11	17.56	19.34	20.02	20.40	21.09	22.54
	6H	14.64	15.27	15.71	16.34	17.80	20.63	21.27	21.70	22.33	23.80
	8H	14.69	15.30	15.77	16.38	17.84	21.29	21.89	22.36	22.98	24.44
	12H	14.71	15.28	15.79	16.36	17.85	22.01	22.59	23.09	23.67	25.15
4H	2H	13.47	14.16	14.54	15.22	16.67	15.82	16.51	16.89	17.58	19.03
	3H	15.17	15.75	16.25	16.85	18.31	18.61	19.19	19.69	20.28	21.75
	4H	15.79	16.33	16.87	17.41	18.90	20.02	20.56	21.11	21.64	23.13
	6H	16.20	16.67	17.29	17.77	19.25	21.49	21.95	22.58	23.06	24.54
	8H	16.31	16.75	17.40	17.84	19.34	22.25	22.68	23.34	23.78	25.27
	12H	16.35	16.75	17.46	17.86	19.36	23.07	23.47	24.18	24.58	26.08
8H	4H	16.58	17.01	17.67	18.11	19.61	20.16	20.60	21.25	21.70	23.19
	6H	17.21	17.57	18.32	18.71	20.20	21.79	22.16	22.90	23.30	24.79
	8H	17.43	17.75	18.55	18.87	20.38	22.68	23.00	23.80	24.12	25.63
	12H	17.56	17.84	18.68	18.96	20.51	23.67	23.96	24.80	25.07	26.62
12H	4H	16.77	17.17	17.88	18.28	19.78	20.14	20.53	21.24	21.64	23.14
	6H	17.54	17.86	18.66	18.98	20.49	21.82	22.14	22.93	23.26	24.77
	8H	17.84	18.13	18.97	19.24	20.79	22.74	23.03	23.87	24.14	25.69