

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: P998807

Luminaire Tested: SA2XXDIP-B675D530UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998807
REPORT IS A COMBINATION OF REPORTS P984553 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B675D530UB2750-4F0-XX-W2A-D_3000K
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

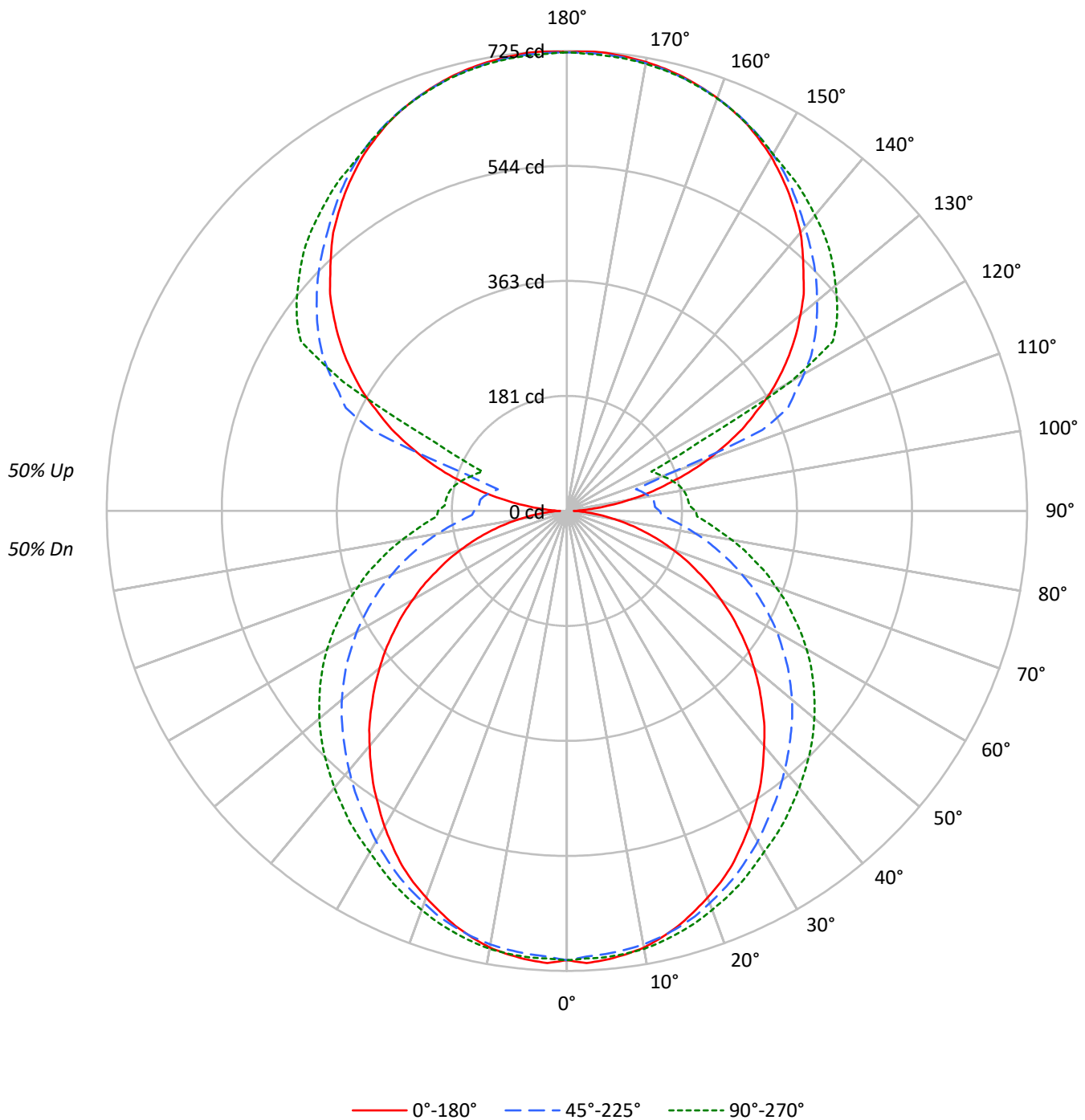
Lumens per Lamp: N/A
Luminaire Lumens: 4822.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65	58	56	54	47	46	44	44	44	44	39
2	87	79	72	66	80	73	67	62	61	57	53	50	47	44	41	38	36	36	36	36	31
3	79	69	61	55	72	63	57	51	53	48	44	44	40	37	35	33	30	30	30	30	26
4	72	61	52	46	66	56	48	43	47	41	37	39	35	31	31	28	26	26	26	26	22
5	66	54	45	39	60	50	42	36	42	36	31	35	30	27	28	25	22	22	22	22	19
6	61	48	40	34	56	44	37	31	38	32	27	31	27	23	25	22	19	19	19	19	16
7	56	43	35	29	51	40	33	27	34	28	24	28	24	20	23	20	17	17	17	17	14
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15	15	15	15	13
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	20	16	14	14	14	14	11
10	45	33	25	20	41	30	24	19	26	21	17	22	18	15	18	15	12	12	12	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	1.4
10°-20°	192.5	4.0
20°-30°	291.7	6.0
30°-40°	355.2	7.4
40°-50°	382.2	7.9
50°-60°	371.2	7.7
60°-70°	324.2	6.7
70°-80°	249.5	5.2
80°-90°	168.4	3.5
90°-100°	139.1	2.9
100°-110°	173.0	3.6
110°-120°	291.2	6.0
120°-130°	421.7	8.7
130°-140°	428.1	8.9
140°-150°	388.0	8.0
150°-160°	310.2	6.4
160°-170°	199.9	4.1
170°-180°	68.8	1.4
0°-30°	551.4	11.4
0°-40°	906.6	18.8
0°-60°	1660.0	34.4
0°-90°	2402.1	49.8
90°-120°	603.3	12.5
90°-150°	1841.2	38.2
90°-180°	2420.0	50.2
0°-180°	4822.0	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	76	146	190	203	9
95°	42	73	138	180	192	47
105°	164	210	120	162	175	176
115°	305	325	384	173	147	300
125°	427	434	477	508	519	381
135°	527	535	550	577	584	408
145°	610	610	619	628	631	382
155°	672	667	674	677	672	310
165°	708	705	706	710	706	200
175°	724	721	722	725	720	69
180°	723	723	723	723	723	

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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°	10.8	76.1	146.0	189.6	202.9
92.5°	22.3	74.6	138.8	179.9	192.7
95°	42.2	73.1	138.4	180.0	191.8
97.5°	68.4	69.6	137.5	177.0	189.9
100°	99.8	66.1	132.4	174.6	186.9
102.5°	133.3	166.0	126.3	169.0	181.9
105°	164.1	209.6	120.2	161.9	175.2
107.5°	201.2	239.0	114.0	154.7	168.1
110°	235.8	267.2	166.4	147.0	160.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.2	295.0	333.4	140.9	153.7
115°	304.8	325.0	384.3	172.9	146.6
117.5°	334.6	353.3	405.3	361.3	234.5
120°	369.2	381.1	431.5	466.6	407.3
122.5°	398.4	407.8	456.3	487.1	496.8
125°	427.3	434.1	476.8	508.1	518.9
127.5°	454.4	460.7	496.2	527.1	536.9
130°	480.1	487.3	514.7	545.0	552.7
132.5°	506.2	511.9	533.1	561.4	569.1
135°	527.1	535.4	550.5	577.2	584.4
137.5°	550.1	556.4	566.8	591.5	597.1
140°	572.6	575.8	583.6	604.7	608.2
142.5°	591.4	594.1	600.9	617.3	619.8
145°	610.3	609.8	618.6	628.5	631.0
147.5°	627.5	626.0	634.9	638.5	639.5
150°	644.3	640.6	649.0	652.1	649.5
152.5°	658.4	654.2	662.0	665.2	661.5
155°	672.0	667.3	673.6	676.7	672.5
157.5°	683.0	678.8	683.5	687.1	683.0
160°	692.4	689.2	692.4	695.5	691.9
162.5°	700.7	697.6	700.2	703.9	699.2
165°	708.1	704.9	706.5	710.2	706.5
167.5°	713.8	710.7	712.2	715.9	711.2
170°	718.5	715.4	716.4	720.1	715.4
172.5°	721.7	718.5	719.6	723.2	718.5
175°	724.3	720.6	721.7	725.3	720.1
177.5°	725.3	721.7	722.2	725.8	721.1
180°	722.7	722.7	722.7	722.7	722.7

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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	13.59	14.50	14.54	15.47	16.74	16.66	17.57	17.61	18.54	19.81
	3H	15.05	15.87	16.01	16.85	18.15	19.26	20.08	20.21	21.06	22.35
	4H	15.53	16.31	16.50	17.30	18.60	20.51	21.29	21.48	22.28	23.58
	6H	15.82	16.54	16.80	17.53	18.84	21.81	22.53	22.79	23.52	24.84
	8H	15.88	16.57	16.86	17.58	18.88	22.47	23.16	23.46	24.17	25.48
	12H	15.89	16.55	16.89	17.55	18.89	23.20	23.86	24.19	24.86	26.19
4H	2H	14.64	15.43	15.62	16.41	17.71	17.00	17.78	17.98	18.77	20.06
	3H	16.36	17.02	17.34	18.03	19.34	19.79	20.46	20.78	21.47	22.78
	4H	16.98	17.59	17.97	18.60	19.93	21.21	21.82	22.21	22.83	24.16
	6H	17.40	17.93	18.40	18.96	20.29	22.68	23.22	23.69	24.24	25.58
	8H	17.51	18.01	18.51	19.03	20.38	23.44	23.94	24.45	24.96	26.31
	12H	17.55	18.01	18.58	19.04	20.40	24.27	24.73	25.30	25.77	27.12
8H	4H	17.77	18.27	18.78	19.30	20.64	21.36	21.86	22.37	22.88	24.23
	6H	18.41	18.83	19.44	19.89	21.24	22.99	23.41	24.02	24.47	25.82
	8H	18.63	19.00	19.67	20.05	21.42	23.88	24.26	24.92	25.30	26.67
	12H	18.77	19.10	19.81	20.14	21.55	24.88	25.21	25.92	26.25	27.66
12H	4H	17.97	18.43	19.00	19.47	20.82	21.34	21.79	22.36	22.83	24.18
	6H	18.74	19.12	19.78	20.17	21.53	23.02	23.39	24.06	24.44	25.80
	8H	19.05	19.38	20.09	20.42	21.83	23.95	24.28	24.99	25.32	26.73