

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: P998811

Luminaire Tested: SA2XXDIP-B675D530UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998811
REPORT IS A COMBINATION OF REPORTS P984557 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B675D530UB2750-4F0-XX-W2A-F_2700K
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

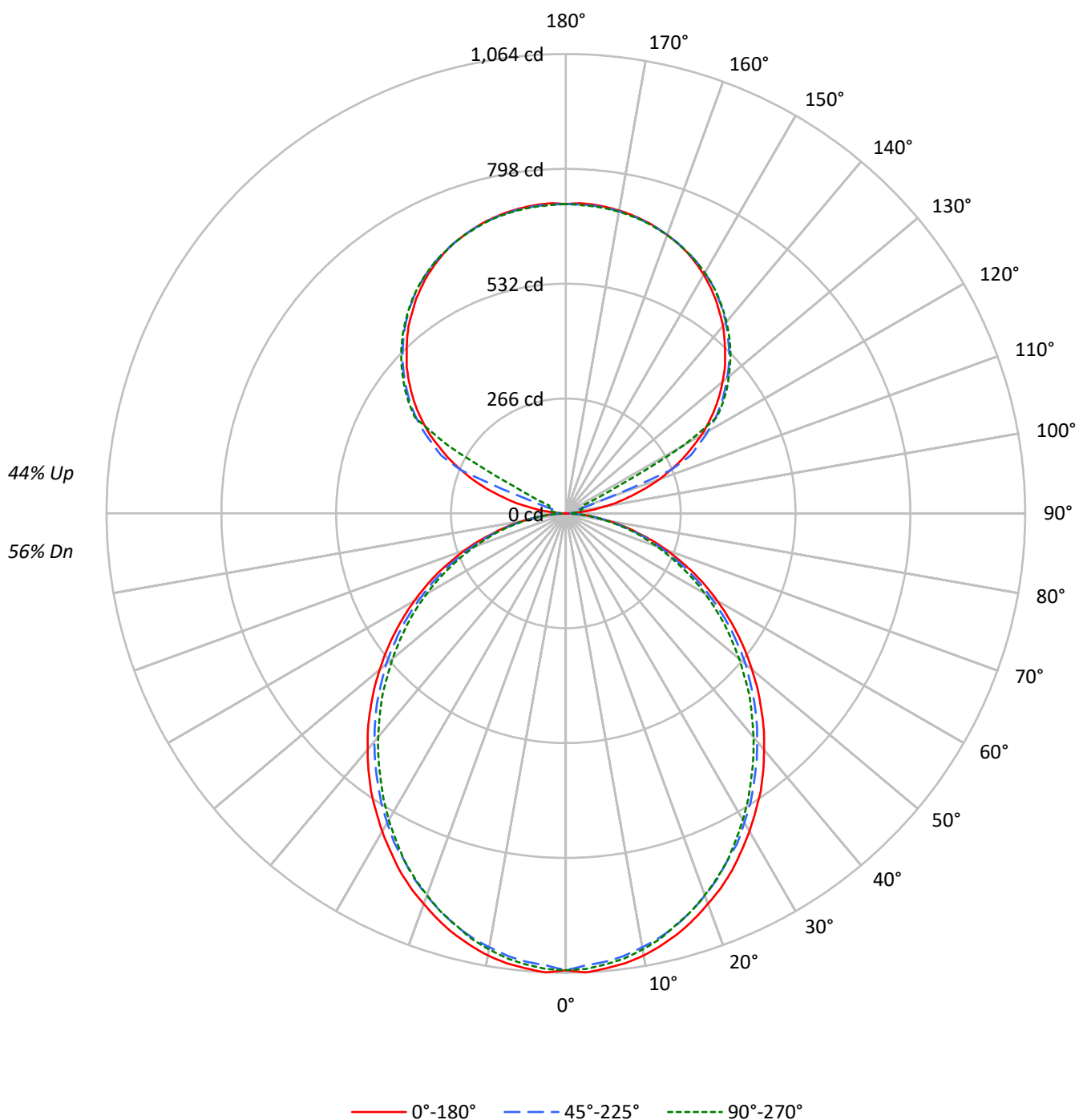
Lumens per Lamp: N/A
Luminaire Lumens: 4794.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
Input Voltage (V): 120
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	87	92	88	85	82	76	74	71	65	63	61	55	53	52
2	90	83	77	71	84	77	72	67	67	63	59	57	54	51	48	46	44
3	82	73	65	59	76	68	61	56	59	54	50	50	47	43	43	40	37
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28
6	64	52	43	38	59	48	41	36	42	36	32	37	32	28	31	28	25
7	59	47	39	33	55	44	37	31	38	32	28	33	29	25	28	25	22
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	23	20
9	51	39	31	26	47	36	30	25	32	26	23	28	23	20	24	21	18
10	48	36	28	23	44	34	27	22	30	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16749	16749	16749
5°	16776	15964	15853
10°	16640	15238	14936
15°	16396	14504	13971
20°	16067	13707	13057
25°	15738	12875	12146
30°	15326	12092	11188
35°	14937	11266	10249
40°	14455	10451	9361
45°	13978	9644	8489
50°	13454	8821	7586
55°	12905	7942	6730
60°	12287	6990	5840
65°	11610	6022	4904
70°	10749	4963	3959
75°	9560	3826	3057
80°	8119	2601	1968
85°	5890	1211	837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	2.1
10°-20°	280.2	5.8
20°-30°	411.8	8.6
30°-40°	478.3	10.0
40°-50°	477.7	10.0
50°-60°	416.5	8.7
60°-70°	307.9	6.4
70°-80°	174.2	3.6
80°-90°	47.2	1.0
90°-100°	23.6	0.5
100°-110°	88.1	1.8
110°-120°	233.6	4.9
120°-130°	387.5	8.1
130°-140°	411.6	8.6
140°-150°	382.5	8.0
150°-160°	307.5	6.4
160°-170°	198.2	4.1
170°-180°	68.2	1.4
0°-30°	791.6	16.5
0°-40°	1269.8	26.5
0°-60°	2164.0	45.1
0°-90°	2693.3	56.2
90°-120°	345.3	7.2
90°-150°	1526.9	31.8
90°-180°	2101.0	43.8
0°-180°	4794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1058	1054	1043	1051	1049	100
15°	1007	1001	988	992	987	284
25°	912	904	886	888	886	419
35°	786	776	760	754	749	491
45°	640	633	618	606	602	494
55°	484	478	466	454	449	433
65°	327	320	310	301	296	323
75°	171	169	164	158	160	182
85°	42	41	40	37	36	46
90°	0	6	10	13	14	4
95°	34	17	20	23	22	40
105°	158	173	32	37	39	168
115°	298	307	320	80	42	293
125°	422	428	438	442	443	376
135°	522	530	535	540	539	403
145°	605	605	613	617	614	378
155°	666	662	668	671	667	307
165°	702	699	700	704	700	198
175°	718	714	716	719	714	68
180°	717	717	717	717	717	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.1	1058.1	1058.1	1058.1	1058.1
2.5°	1064.2	1059.1	1047.9	1058.1	1056.1
5°	1058.1	1054.0	1042.8	1051.0	1049.0
7.5°	1051.0	1044.9	1033.7	1041.8	1039.8
10°	1039.8	1032.7	1020.5	1028.6	1025.6
12.5°	1024.5	1018.4	1006.2	1011.3	1009.3
15°	1007.2	1001.1	987.9	992.0	986.9
17.5°	985.9	979.8	966.5	971.6	966.5
20°	962.5	956.4	942.1	945.2	941.1
22.5°	939.1	929.9	916.7	916.7	914.7
25°	911.6	903.5	886.2	888.2	886.2
27.5°	881.1	874.0	860.7	857.7	852.6
30°	850.6	842.4	827.2	824.1	820.0
32.5°	818.0	811.9	795.6	789.5	785.4
35°	786.5	776.3	760.0	753.9	748.8
37.5°	750.9	741.7	725.4	718.3	713.2
40°	714.2	706.1	689.8	680.6	676.6
42.5°	678.6	670.5	654.2	644.0	637.9
45°	640.0	632.8	617.6	606.4	602.3
47.5°	602.3	595.2	578.9	567.7	561.6
50°	562.6	557.5	543.3	529.1	524.0
52.5°	524.0	516.8	503.6	492.4	485.3
55°	484.3	478.2	466.0	453.8	448.7
57.5°	444.6	439.5	426.3	414.1	410.0
60°	404.9	400.9	386.6	375.4	372.4
62.5°	366.3	359.1	349.0	338.8	334.7
65°	326.6	320.5	310.3	301.2	296.1
67.5°	285.9	280.8	271.6	264.5	260.5
70°	248.2	244.2	235.0	227.9	223.8
72.5°	209.6	205.5	200.4	193.3	190.3
75°	170.9	168.9	163.8	157.7	159.7
77.5°	136.3	132.3	130.2	127.2	124.1
80°	101.7	100.7	98.7	95.6	93.6
82.5°	69.2	69.2	68.2	64.1	64.1
85°	41.7	40.7	39.7	36.6	35.6
87.5°	18.3	16.3	14.2	11.2	10.2
90°	0.5	6.2	10.4	13.0	14.0
92.5°	13.0	10.9	12.4	13.5	14.0
95°	33.7	16.6	20.2	22.8	22.3
97.5°	60.7	18.1	26.4	28.0	28.5
100°	91.8	20.7	29.6	33.7	34.7
102.5°	126.0	125.0	30.6	36.3	37.9
105°	157.6	173.2	31.6	37.3	39.4
107.5°	194.4	207.4	32.7	38.4	40.4
110°	229.7	240.6	90.7	38.9	41.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	262.9	272.2	263.4	39.9	41.5
115°	298.1	307.0	319.9	79.8	42.5
117.5°	328.7	339.1	347.9	273.8	137.9
120°	363.0	370.7	380.1	386.3	316.3
122.5°	392.0	400.3	410.7	413.8	414.3
125°	421.5	428.3	438.1	441.8	443.3
127.5°	448.5	455.8	463.5	468.7	469.2
130°	473.9	482.2	487.9	493.6	493.1
132.5°	499.8	506.6	512.3	516.9	516.4
135°	521.6	529.9	534.6	539.8	538.7
137.5°	544.4	550.7	555.8	561.0	559.5
140°	566.7	570.9	576.6	581.2	578.7
142.5°	585.4	589.0	595.8	599.9	597.3
145°	605.1	604.6	613.4	617.0	614.4
147.5°	622.2	620.6	629.5	632.1	630.0
150°	638.8	635.2	643.5	646.6	644.0
152.5°	652.8	648.6	656.4	659.5	655.9
155°	666.3	661.6	667.8	670.9	666.8
157.5°	677.2	673.0	677.7	681.3	677.2
160°	686.5	683.4	686.5	689.6	686.0
162.5°	694.8	691.7	694.3	697.9	693.2
165°	702.1	698.9	700.5	704.1	700.5
167.5°	707.8	704.6	706.2	709.8	705.2
170°	712.4	709.3	710.4	714.0	709.3
172.5°	715.5	712.4	713.5	717.1	712.4
175°	718.1	714.5	715.5	719.2	714.0
177.5°	719.2	715.5	716.1	719.7	715.0
180°	716.6	716.6	716.6	716.6	716.6

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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	15.58	16.50	16.48	17.42	18.60	16.36	17.28	17.26	18.20	19.38
	3H	16.92	17.75	17.84	18.68	19.88	17.99	18.82	18.91	19.75	20.95
	4H	17.33	18.11	18.26	19.05	20.26	18.59	19.37	19.52	20.30	21.52
	6H	17.55	18.27	18.49	19.21	20.44	18.99	19.71	19.93	20.66	21.88
	8H	17.58	18.27	18.53	19.23	20.45	19.10	19.79	20.05	20.75	21.97
	12H	17.58	18.23	18.53	19.18	20.43	19.15	19.80	20.10	20.76	22.01
4H	2H	16.06	16.84	16.99	17.77	18.99	16.70	17.48	17.63	18.42	19.63
	3H	17.58	18.23	18.52	19.20	20.43	18.48	19.14	19.43	20.10	21.33
	4H	18.09	18.68	19.04	19.64	20.90	19.17	19.76	20.12	20.72	21.98
	6H	18.39	18.91	19.36	19.89	21.14	19.67	20.18	20.64	21.17	22.42
	8H	18.45	18.93	19.42	19.91	21.18	19.81	20.29	20.78	21.27	22.54
	12H	18.45	18.89	19.44	19.88	21.15	19.88	20.31	20.87	21.30	22.58
8H	4H	18.27	18.75	19.24	19.72	20.99	19.26	19.74	20.23	20.72	21.98
	6H	18.65	19.05	19.65	20.07	21.34	19.83	20.23	20.83	21.25	22.51
	8H	18.76	19.11	19.76	20.11	21.40	20.02	20.37	21.02	21.38	22.66
	12H	18.79	19.10	19.80	20.10	21.43	20.12	20.43	21.13	21.43	22.76
12H	4H	18.25	18.69	19.24	19.68	20.95	19.23	19.66	20.21	20.65	21.93
	6H	18.67	19.02	19.68	20.03	21.31	19.82	20.17	20.83	21.18	22.47
	8H	18.79	19.10	19.79	20.10	21.43	20.02	20.33	21.03	21.33	22.66