

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: P1009327

Luminaire Tested: S122DIP-B675D530UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009327
REPORT IS A COMBINATION OF REPORTS P984583 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB40-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

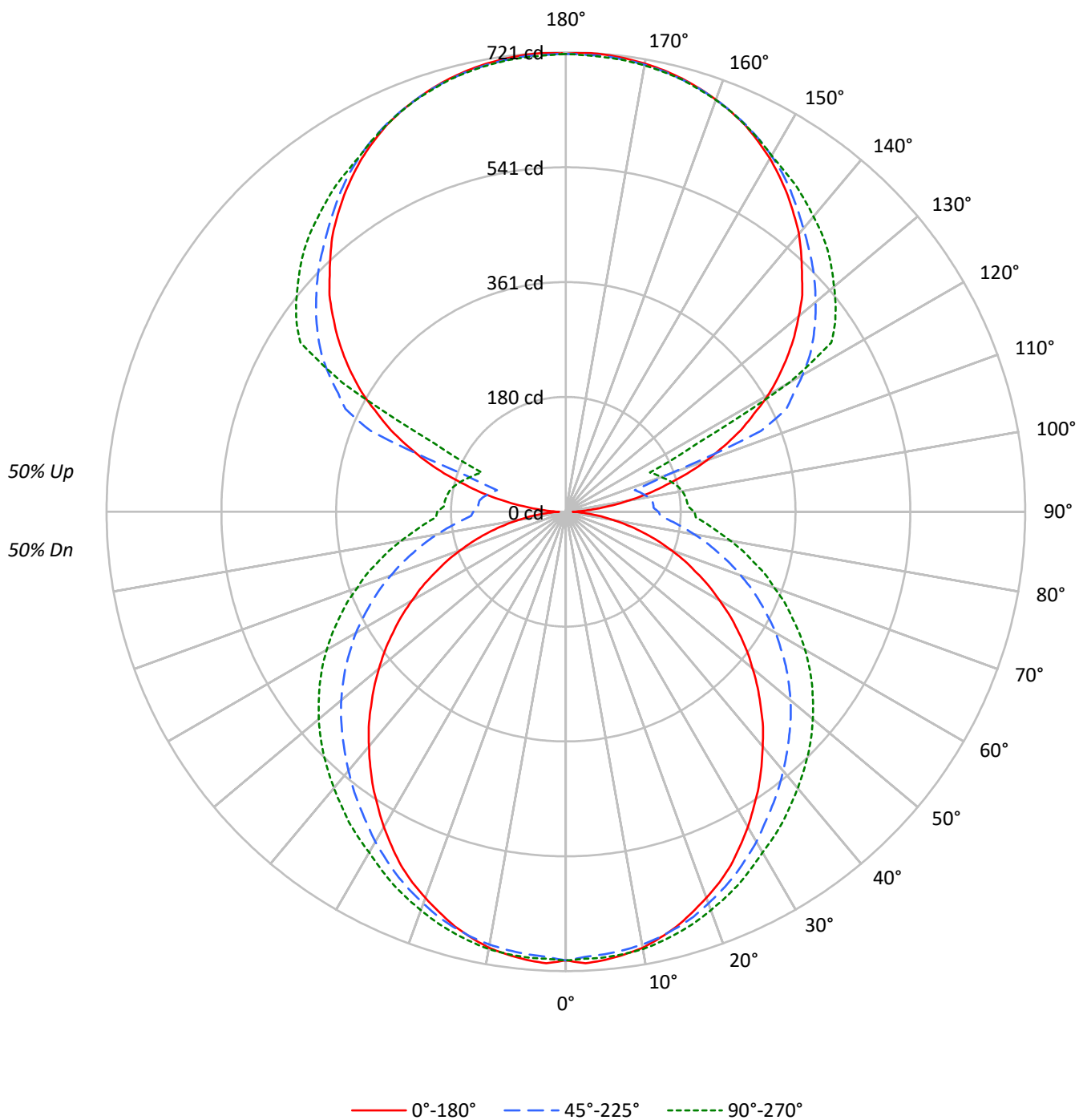
Lumens per Lamp: N/A
Luminaire Lumens: 4795.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
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	96	91	87	83	88	84	80	77	71	68	65	58	56	54	47	46	44
2	87	79	72	66	80	73	67	62	61	57	53	50	47	44	41	38	36
3	79	69	61	55	72	63	57	51	53	48	44	44	40	37	35	33	30
4	72	61	52	46	66	56	48	43	47	41	37	39	35	31	31	28	26
5	66	54	45	39	60	50	42	36	42	36	31	35	30	27	28	25	22
6	61	48	40	34	56	44	37	31	38	32	27	31	27	23	25	22	19
7	56	43	35	29	51	40	33	27	34	28	24	28	24	20	23	20	17
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	20	16	14
10	45	33	25	20	41	30	24	19	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11147	11147	11147
5°	11197	10672	10612
10°	11122	10301	10152
15°	10965	9919	9680
20°	10767	9518	9232
25°	10573	9134	8827
30°	10297	8743	8425
35°	10020	8366	8130
40°	9729	8041	7836
45°	9450	7745	7580
50°	9152	7473	7328
55°	8839	7184	7072
60°	8454	6883	6801
65°	8055	6537	6491
70°	7600	6165	6156
75°	7021	5793	5842
80°	6108	5405	5514
85°	5184	5040	5232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9450 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.4
10°-20°	191.5	4.0
20°-30°	290.1	6.1
30°-40°	353.3	7.4
40°-50°	380.1	7.9
50°-60°	369.1	7.7
60°-70°	322.4	6.7
70°-80°	248.1	5.2
80°-90°	167.4	3.5
90°-100°	138.3	2.9
100°-110°	172.1	3.6
110°-120°	289.6	6.0
120°-130°	419.4	8.7
130°-140°	425.7	8.9
140°-150°	385.8	8.0
150°-160°	308.4	6.4
160°-170°	198.7	4.1
170°-180°	68.4	1.4
0°-30°	548.3	11.4
0°-40°	901.6	18.8
0°-60°	1650.8	34.4
0°-90°	2388.7	49.8
90°-120°	599.9	12.5
90°-150°	1830.7	38.2
90°-180°	2406.0	50.2
0°-180°	4795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	706	703	697	703	702	67
15°	674	676	676	685	684	190
25°	612	620	629	641	644	282
35°	528	545	564	587	594	330
45°	433	460	496	528	538	334
55°	332	368	422	458	472	297
65°	227	277	337	379	392	225
75°	126	183	248	292	305	133
85°	37	100	165	208	222	39
90°	11	76	145	188	202	9
95°	42	73	138	179	191	46
105°	163	208	120	161	174	175
115°	303	323	382	172	146	298
125°	425	432	474	505	516	379
135°	524	532	547	574	581	405
145°	607	606	615	625	627	380
155°	668	664	670	673	669	308
165°	704	701	702	706	702	199
175°	720	716	718	721	716	69
180°	719	719	719	719	719	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.2	704.2	704.2	704.2	704.2
2.5°	709.3	706.2	699.1	704.2	702.2
5°	706.2	703.2	697.1	703.2	702.2
7.5°	701.1	699.1	694.0	701.1	700.1
10°	695.0	693.0	689.9	698.1	697.1
12.5°	684.8	685.8	683.8	692.0	690.9
15°	673.6	675.6	675.6	684.8	683.8
17.5°	659.3	663.4	666.4	675.6	675.6
20°	645.0	650.1	654.2	665.4	665.4
22.5°	629.7	635.8	641.9	653.2	655.2
25°	612.4	619.5	628.7	640.9	644.0
27.5°	591.9	603.2	613.4	628.7	630.7
30°	571.5	584.8	598.1	614.4	617.5
32.5°	549.1	564.4	580.7	600.1	606.2
35°	527.6	545.0	564.4	586.8	594.0
37.5°	504.2	523.6	548.1	572.5	579.7
40°	480.7	503.1	530.7	557.2	566.4
42.5°	458.2	480.7	513.4	543.0	552.1
45°	432.7	460.3	496.0	527.6	537.8
47.5°	408.2	437.8	478.7	511.3	522.5
50°	382.7	414.4	460.3	495.0	506.2
52.5°	358.2	391.9	440.9	476.6	488.9
55°	331.7	368.4	421.5	458.2	471.5
57.5°	306.2	347.0	400.1	439.9	453.1
60°	278.6	322.5	380.7	419.5	433.7
62.5°	254.1	300.1	358.2	400.1	413.3
65°	226.6	276.6	336.8	378.6	391.9
67.5°	202.1	254.1	315.4	357.2	371.5
70°	175.5	228.6	291.9	335.8	348.0
72.5°	151.0	206.2	270.5	313.3	328.6
75°	125.5	182.7	248.0	291.9	305.2
77.5°	101.0	160.2	226.6	270.5	284.7
80°	76.5	138.8	205.1	248.0	262.3
82.5°	56.1	117.4	184.7	227.6	240.9
85°	36.7	100.0	165.3	208.2	222.5
87.5°	22.5	83.7	149.0	190.8	204.1
90°	10.7	75.6	145.1	188.5	201.8
92.5°	22.2	74.2	138.0	178.8	191.6
95°	42.0	72.7	137.7	179.0	190.8
97.5°	67.9	69.2	136.7	176.1	188.8
100°	99.1	65.7	131.7	173.6	185.8
102.5°	132.5	165.1	125.6	168.1	180.9
105°	163.2	208.4	119.5	160.9	174.2
107.5°	200.1	237.6	113.4	153.8	167.2
110°	234.5	265.8	165.5	146.2	159.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.7	293.4	331.6	140.0	152.8
115°	303.1	323.1	382.0	172.0	145.7
117.5°	332.8	351.3	403.0	359.3	233.2
120°	367.1	378.9	429.1	463.9	405.0
122.5°	396.2	405.5	453.6	484.3	494.1
125°	424.7	431.5	474.1	505.3	516.0
127.5°	451.8	458.1	493.5	524.2	533.9
130°	477.3	484.6	511.8	541.9	549.6
132.5°	503.3	509.0	530.0	558.2	565.9
135°	524.1	532.4	547.3	574.0	581.1
137.5°	547.0	553.2	563.5	588.1	593.8
140°	569.3	572.5	580.2	601.3	604.8
142.5°	588.1	590.7	597.5	613.8	616.3
145°	606.8	606.3	615.1	624.9	627.4
147.5°	624.0	622.4	631.3	634.9	635.9
150°	640.6	637.0	645.3	648.4	645.8
152.5°	654.7	650.5	658.3	661.4	657.8
155°	668.2	663.5	669.7	672.9	668.7
157.5°	679.1	674.9	679.6	683.3	679.1
160°	688.5	685.3	688.5	691.6	687.9
162.5°	696.8	693.7	696.3	699.9	695.2
165°	704.1	700.9	702.5	706.1	702.5
167.5°	709.8	706.7	708.2	711.9	707.2
170°	714.5	711.3	712.4	716.0	711.3
172.5°	717.6	714.5	715.5	719.1	714.5
175°	720.2	716.5	717.6	721.2	716.0
177.5°	721.2	717.6	718.1	721.7	717.1
180°	718.6	718.6	718.6	718.6	718.6

(END OF REPORT)