

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: P1027029

Luminaire Tested: S125DIP-B850D610UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027029
REPORT IS A COMBINATION OF REPORTS P1002613 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB2750-4F0-XX-W2A-D_2700K
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

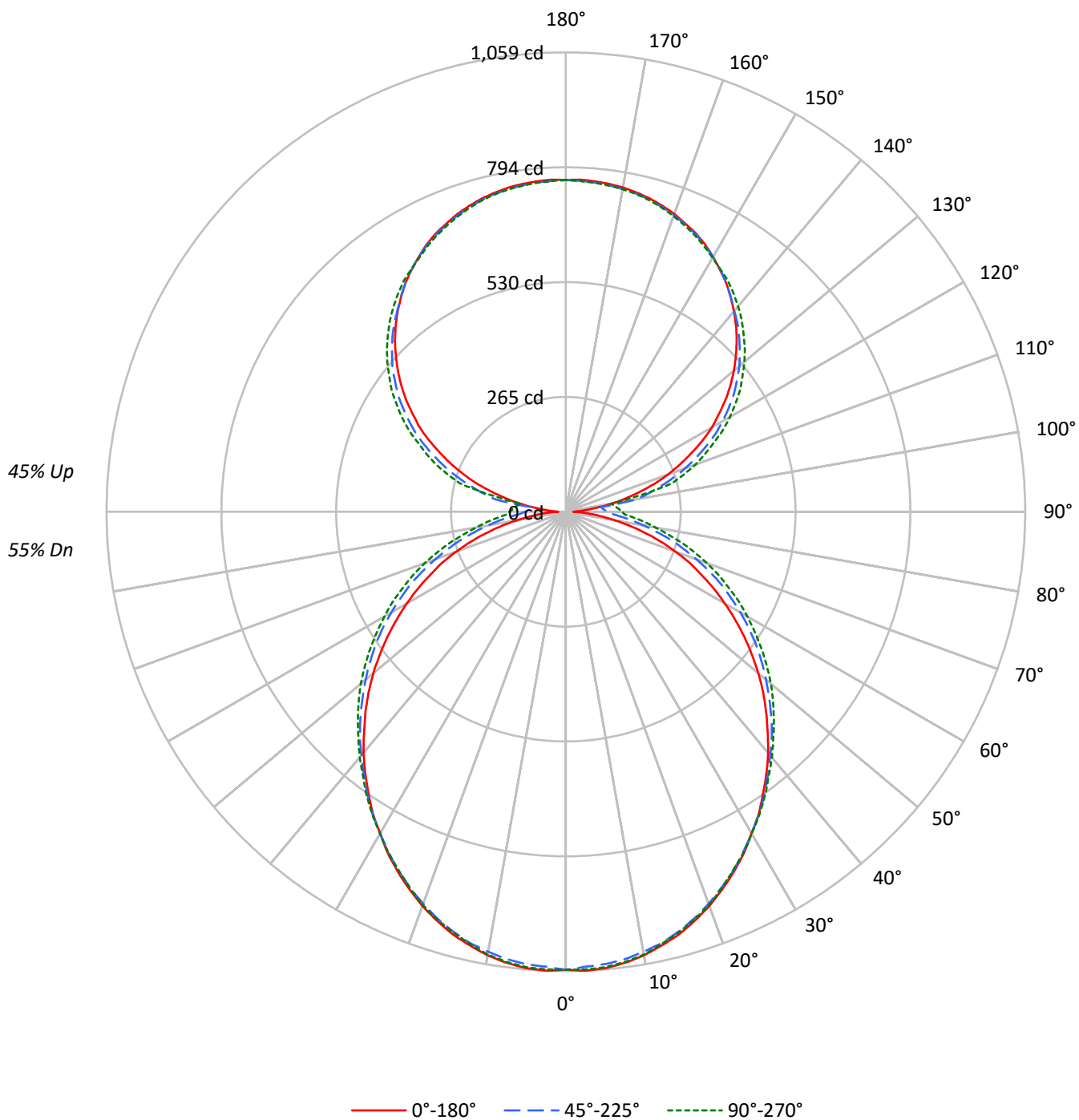
Lumens per Lamp: N/A
Luminaire Lumens: 5621.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	98	93	89	85	91	87	83	80	74	71	69	63	61	59	52	51	49
2	89	81	75	69	82	75	70	65	65	60	56	55	51	49	45	43	41
3	81	71	63	57	75	66	59	54	57	51	47	48	44	41	40	37	35
4	74	63	54	48	68	58	51	45	50	44	40	43	38	35	36	32	30
5	68	56	47	41	63	52	44	39	45	39	34	38	34	30	32	28	26
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22
7	58	45	37	31	53	42	35	29	37	31	26	31	27	23	26	23	20
8	54	41	33	27	50	38	31	26	33	27	23	29	24	21	24	21	18
9	50	37	30	24	46	35	28	23	31	25	21	26	22	18	22	19	16
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6765	6765	6765
5°	6776	6623	6639
10°	6725	6488	6470
15°	6644	6331	6261
20°	6533	6141	6054
25°	6402	5939	5803
30°	6244	5719	5575
35°	6096	5516	5365
40°	5945	5302	5152
45°	5774	5117	4963
50°	5611	4916	4791
55°	5415	4723	4591
60°	5200	4505	4386
65°	4976	4274	4156
70°	4719	3966	3916
75°	4313	3660	3623
80°	3781	3289	3298
85°	3253	2993	3129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.8
10°-20°	283.6	5.0
20°-30°	421.8	7.5
30°-40°	499.5	8.9
40°-50°	516.4	9.2
50°-60°	475.7	8.5
60°-70°	384.6	6.8
70°-80°	257.3	4.6
80°-90°	134.1	2.4
90°-100°	100.9	1.8
100°-110°	227.8	4.1
110°-120°	347.7	6.2
120°-130°	419.8	7.5
130°-140°	438.2	7.8
140°-150°	404.5	7.2
150°-160°	325.7	5.8
160°-170°	210.6	3.7
170°-180°	72.6	1.3
0°-30°	805.4	14.3
0°-40°	1304.9	23.2
0°-60°	2297.1	40.9
0°-90°	3073.1	54.7
90°-120°	676.4	12.0
90°-150°	1938.9	34.5
90°-180°	2548.0	45.3
0°-180°	5621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1056	1054	1047	1055	1054	100
15°	1008	1009	1002	1008	1004	284
25°	916	919	913	917	912	422
35°	793	800	797	800	800	496
45°	653	665	670	677	678	504
55°	502	519	535	547	551	449
65°	346	370	394	410	414	343
75°	190	217	250	271	276	202
85°	57	91	127	150	158	59
90°	17	55	94	121	130	13
95°	46	71	85	110	118	50
105°	176	195	226	246	253	186
115°	319	329	357	373	376	316
125°	449	452	473	487	490	401
135°	557	559	566	578	580	429
145°	644	644	644	650	651	403
155°	708	705	706	708	703	326
165°	748	744	745	748	744	211
175°	765	761	762	766	761	73
180°	765	765	765	765	765	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1059.0	1056.9	1049.7	1056.9	1055.9
5°	1055.9	1053.8	1046.6	1054.9	1053.8
7.5°	1048.7	1047.6	1040.4	1047.6	1046.6
10°	1038.3	1038.3	1030.0	1037.3	1036.2
12.5°	1023.8	1024.8	1018.6	1023.8	1020.7
15°	1008.3	1009.3	1002.1	1008.3	1004.1
17.5°	988.6	990.7	983.4	988.6	985.5
20°	966.9	968.9	961.7	964.8	964.8
22.5°	942.0	946.2	937.9	942.0	938.9
25°	916.2	919.3	913.0	917.2	912.0
27.5°	888.2	892.3	885.1	888.2	886.1
30°	856.1	862.3	856.1	858.2	857.1
32.5°	827.1	832.3	828.2	830.2	829.2
35°	793.0	800.2	797.1	800.2	800.2
37.5°	759.8	766.0	765.0	769.2	768.1
40°	725.7	734.0	732.9	737.1	739.1
42.5°	688.4	699.8	702.9	708.1	708.1
45°	653.2	664.6	669.8	677.0	678.1
47.5°	617.0	627.3	635.6	646.0	648.0
50°	579.7	591.1	602.5	613.9	617.0
52.5°	540.4	554.9	569.4	581.8	583.9
55°	502.1	518.6	535.2	546.6	550.7
57.5°	462.7	482.4	501.0	513.5	516.6
60°	423.4	444.1	464.8	480.3	483.4
62.5°	385.1	405.8	428.6	446.2	450.3
65°	345.8	369.6	394.4	409.9	414.1
67.5°	309.5	332.3	357.1	375.8	381.0
70°	269.2	293.0	319.9	339.5	345.8
72.5°	229.8	254.7	284.7	306.4	310.6
75°	190.5	217.4	250.5	271.2	276.4
77.5°	152.2	183.2	214.3	237.1	241.2
80°	117.0	148.0	183.2	206.0	210.1
82.5°	84.9	118.0	154.2	176.0	184.3
85°	56.9	91.1	127.3	150.1	158.4
87.5°	36.2	69.4	104.6	128.4	135.6
90°	17.2	54.8	94.0	120.6	129.5
92.5°	25.3	50.2	89.8	115.4	123.3
95°	45.8	71.0	84.7	110.2	117.5
97.5°	73.1	101.4	81.6	104.5	112.3
100°	106.1	129.5	164.9	102.2	106.1
102.5°	139.6	161.5	194.7	216.6	175.2
105°	175.9	194.8	225.8	246.5	253.2
107.5°	213.5	228.0	259.1	280.4	284.3
110°	249.8	262.3	292.4	310.3	318.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	296.0	324.5	340.8	347.0
115°	319.1	329.2	356.7	373.0	375.8
117.5°	354.9	360.1	388.2	402.4	408.6
120°	388.9	391.5	417.0	433.4	436.8
122.5°	417.9	421.8	445.2	460.6	463.4
125°	449.1	452.0	472.7	487.1	490.5
127.5°	478.1	479.9	497.0	511.3	513.0
130°	505.3	507.1	522.2	535.0	537.3
132.5°	531.5	534.9	543.5	558.0	559.4
135°	557.0	559.3	565.5	577.8	579.6
137.5°	580.8	583.1	586.2	598.6	599.9
140°	603.0	604.1	604.6	617.2	617.9
142.5°	623.9	623.5	624.6	633.9	634.7
145°	644.4	644.5	644.5	650.3	651.0
147.5°	661.5	661.5	662.1	664.7	662.8
150°	678.5	677.4	678.5	679.6	676.1
152.5°	694.9	692.1	693.2	694.4	690.4
155°	708.5	705.1	706.3	708.0	703.4
157.5°	719.3	717.6	717.6	719.3	714.8
160°	730.6	727.2	727.8	730.1	725.5
162.5°	739.7	736.3	736.9	740.3	735.2
165°	747.7	744.3	744.8	748.2	743.7
167.5°	753.9	750.5	751.1	755.0	749.9
170°	759.0	755.0	755.6	760.1	755.0
172.5°	762.4	758.4	759.6	763.5	758.4
175°	764.7	761.3	761.8	766.4	761.3
177.5°	766.4	763.0	763.5	767.5	763.0
180°	764.7	764.7	764.7	764.7	764.7

(END OF REPORT)