

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: P1028332

Luminaire Tested: S125DIP-B850D610UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028332
REPORT IS A COMBINATION OF REPORTS P1002604 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

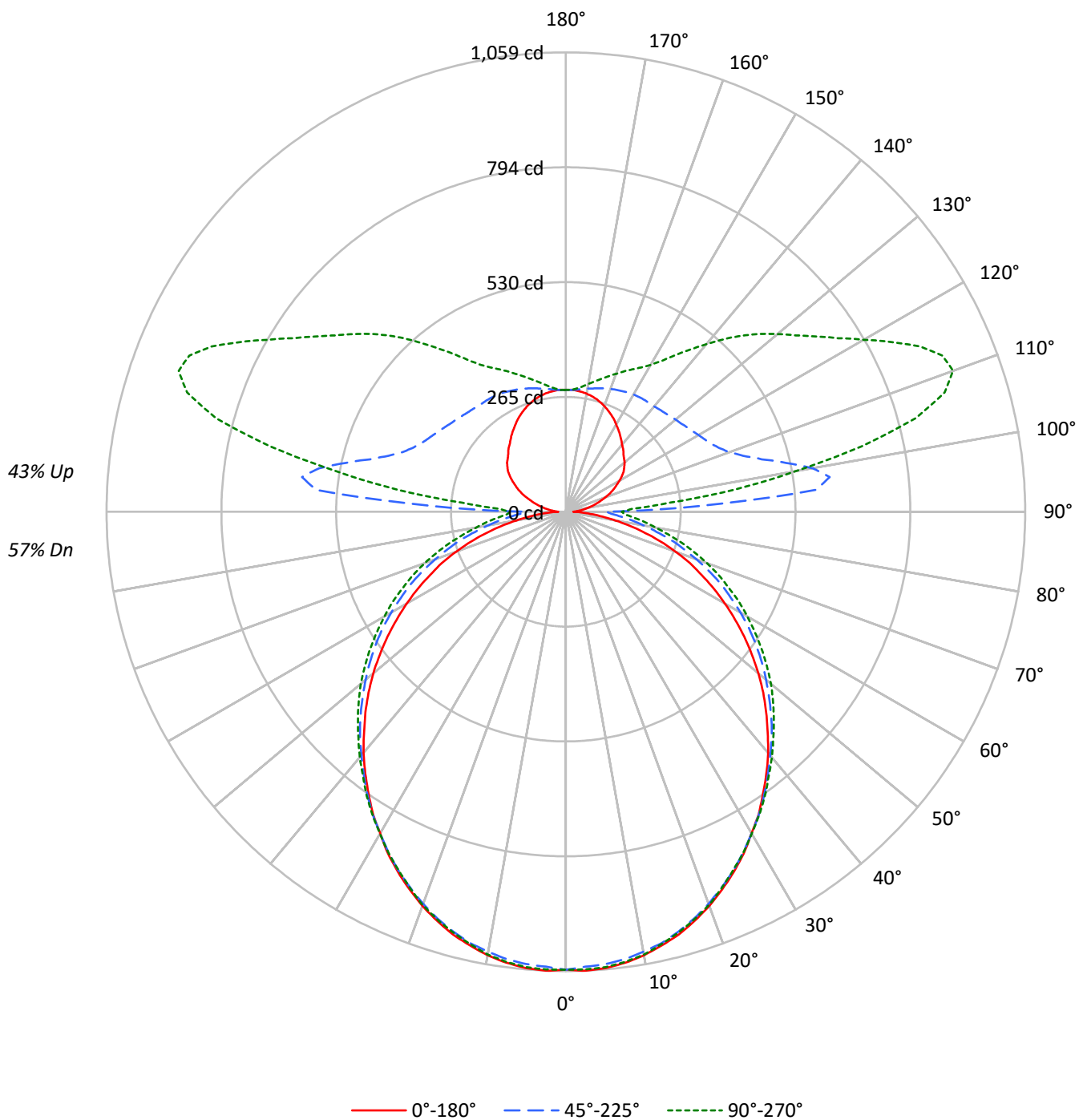
Lumens per Lamp: N/A
Luminaire Lumens: 5387.4 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
Input Voltage (V):
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			0
RW	70	50	30	10	70	50	30	10	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	63	63	63	57		
1	99	94	90	86	91	87	84	80	75	73	70	64	62	60	54	53	51	46		
2	89	81	75	69	83	76	70	65	65	61	57	56	53	50	47	45	42	38		
3	81	71	64	57	75	67	60	54	57	52	48	49	45	42	41	38	36	32		
4	74	63	55	48	69	59	51	46	51	45	41	44	39	35	37	33	31	27		
5	68	56	48	41	63	52	45	39	46	39	35	39	34	31	33	29	27	23		
6	63	50	42	36	58	47	39	34	41	35	30	35	30	27	30	26	23	20		
7	58	45	37	31	54	42	35	30	37	31	27	32	27	24	27	24	21	18		
8	54	41	33	28	50	39	31	26	34	28	24	29	25	21	25	21	18	16		
9	50	38	30	25	47	35	28	23	31	25	21	27	22	19	23	19	17	14		
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15	13		

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	1.9
10°-20°	283.6	5.3
20°-30°	421.8	7.8
30°-40°	499.5	9.3
40°-50°	516.4	9.6
50°-60°	475.7	8.8
60°-70°	384.6	7.1
70°-80°	257.3	4.8
80°-90°	134.1	2.5
90°-100°	286.6	5.3
100°-110°	494.8	9.2
110°-120°	447.6	8.3
120°-130°	353.2	6.6
130°-140°	276.1	5.1
140°-150°	203.3	3.8
150°-160°	141.9	2.6
160°-170°	83.6	1.6
170°-180°	27.2	0.5
0°-30°	805.4	14.9
0°-40°	1304.9	24.2
0°-60°	2297.1	42.6
0°-90°	3073.1	57.0
90°-120°	1229.0	22.8
90°-150°	2061.6	38.3
90°-180°	2314.0	43.0
0°-180°	5387.4	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	129	13
95°	32	96	578	326	239	30
105°	73	115	468	886	836	77
115°	121	152	370	770	902	119
125°	163	189	340	606	704	144
135°	188	225	322	496	574	146
145°	217	248	315	398	441	136
155°	247	266	307	347	362	114
165°	270	277	295	312	317	76
175°	280	280	283	286	285	27
180°	281	281	281	281	281	

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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	128.9
92.5°	23.0	91.0	306.8	163.8	152.7
95°	32.2	95.6	577.6	326.1	238.8
97.5°	41.3	97.0	613.6	504.6	392.2
100°	51.1	101.7	578.0	669.3	536.2
102.5°	62.0	108.5	519.9	808.0	698.7
105°	73.3	115.4	467.7	886.4	835.7
107.5°	84.2	124.0	428.5	905.8	915.5
110°	96.2	133.0	401.1	878.3	949.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.2	142.1	383.3	826.4	940.1
115°	120.7	151.5	370.2	769.8	901.5
117.5°	131.0	161.1	360.9	717.0	847.0
120°	142.3	171.2	353.4	673.0	793.1
122.5°	153.1	180.0	346.4	635.8	744.8
125°	162.8	189.0	340.0	605.9	704.5
127.5°	169.7	198.7	334.7	578.6	668.1
130°	177.0	208.9	330.5	552.1	637.4
132.5°	181.7	218.0	326.3	523.8	606.8
135°	187.9	224.6	322.2	495.6	574.2
137.5°	195.9	231.6	319.7	467.5	539.6
140°	201.6	237.6	317.1	441.3	504.3
142.5°	209.5	242.2	315.6	418.1	471.3
145°	217.4	247.9	315.0	397.6	441.1
147.5°	224.9	253.0	313.9	380.4	412.6
150°	232.3	257.5	312.2	366.6	390.8
152.5°	240.2	262.0	309.9	356.7	375.1
155°	247.0	265.8	307.1	347.0	362.1
157.5°	253.3	269.4	304.3	338.0	350.2
160°	259.5	272.2	301.4	328.9	338.3
162.5°	264.6	275.1	298.0	320.7	327.5
165°	269.7	277.1	294.6	312.5	317.3
167.5°	273.1	278.2	291.2	304.8	307.7
170°	276.5	279.6	288.4	297.4	299.2
172.5°	278.8	280.2	285.0	291.5	291.2
175°	280.5	280.5	282.7	286.1	285.0
177.5°	281.6	280.5	281.0	282.7	281.0
180°	281.0	281.0	281.0	281.0	281.0

(END OF REPORT)