

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: P1028331

Luminaire Tested: S125DIP-B850D610UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028331
REPORT IS A COMBINATION OF REPORTS P1002603 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

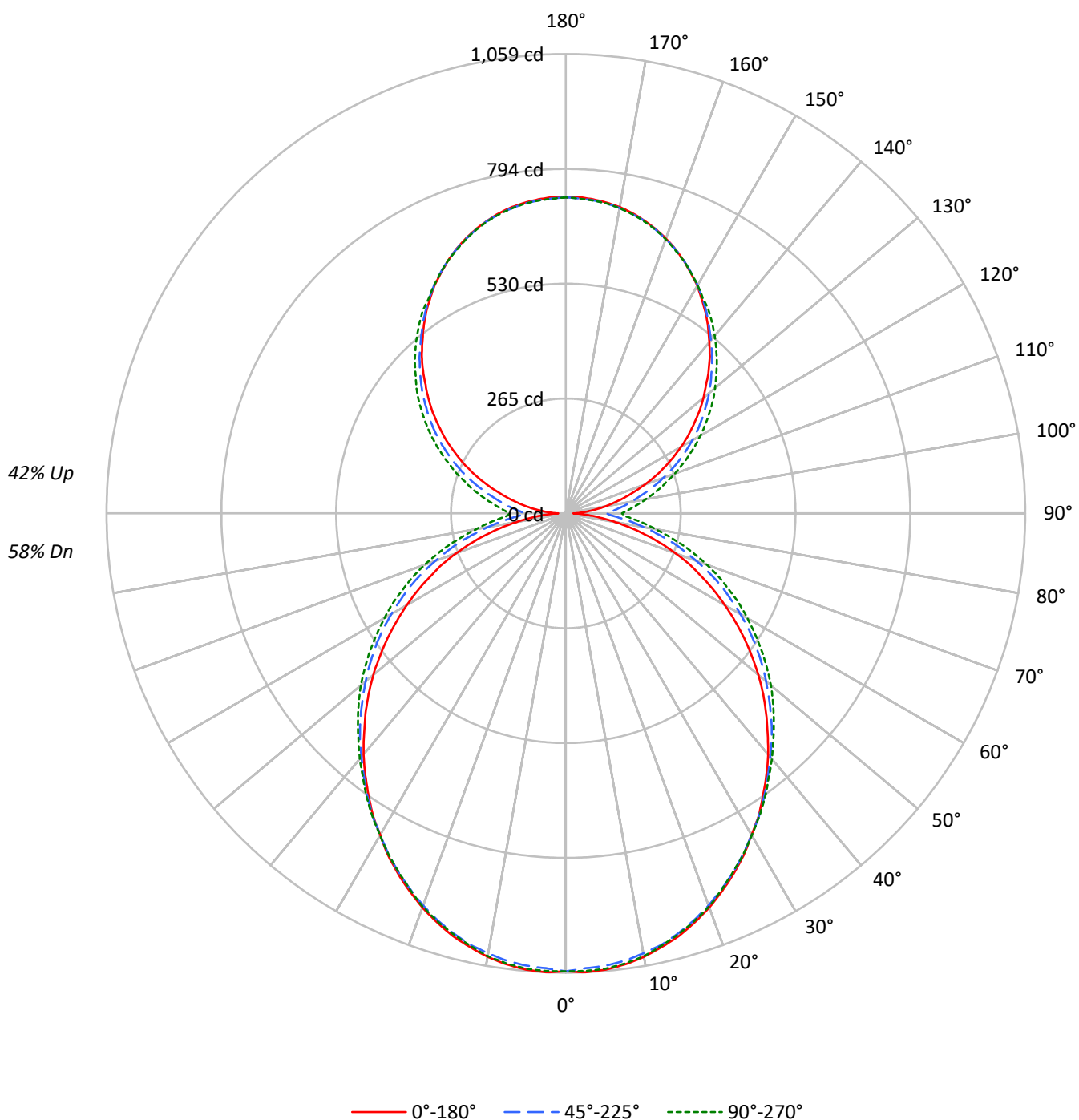
Lumens per Lamp: N/A
Luminaire Lumens: 5305.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	99	94	90	86	92	88	84	81	76	73	70	65	63	61	55	53	52
2	90	82	75	69	83	76	70	65	66	61	58	56	53	50	48	45	43
3	81	71	64	57	75	67	60	54	58	52	48	50	45	42	42	39	36
4	74	63	55	48	69	59	52	46	51	45	41	44	39	36	37	34	31
5	68	56	48	41	63	53	45	39	46	40	35	39	35	31	34	30	27
6	63	50	42	36	58	47	40	34	41	35	30	36	31	27	30	27	24
7	58	45	37	31	54	43	35	30	37	31	27	32	27	24	28	24	21
8	54	41	33	28	50	39	31	26	34	28	24	30	25	21	25	22	19
9	50	38	30	25	47	35	28	24	31	25	21	27	22	19	23	20	17
10	47	35	27	22	44	33	26	21	29	23	19	25	21	17	22	18	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	1.9
10°-20°	283.6	5.3
20°-30°	421.8	8.0
30°-40°	499.5	9.4
40°-50°	516.4	9.7
50°-60°	475.7	9.0
60°-70°	384.6	7.2
70°-80°	257.3	4.9
80°-90°	134.1	2.5
90°-100°	123.4	2.3
100°-110°	199.1	3.8
110°-120°	281.0	5.3
120°-130°	342.2	6.5
130°-140°	369.2	7.0
140°-150°	354.7	6.7
150°-160°	296.4	5.6
160°-170°	197.0	3.7
170°-180°	69.0	1.3
0°-30°	805.4	15.2
0°-40°	1304.9	24.6
0°-60°	2297.1	43.3
0°-90°	3073.1	57.9
90°-120°	603.5	11.4
90°-150°	1669.5	31.5
90°-180°	2232.0	42.1
0°-180°	5305.0	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	14
95°	50	78	119	146	154	49
105°	138	158	192	216	226	148
115°	250	260	288	306	312	248
125°	361	363	384	400	404	323
135°	466	468	476	489	492	359
145°	563	564	566	571	573	352
155°	643	643	643	646	643	296
165°	699	698	698	701	697	197
175°	727	724	724	728	724	69
180°	728	728	728	728	728	

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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°	31.5	64.3	105.6	132.4	140.8
95°	50.3	78.4	119.2	145.9	154.3
97.5°	69.1	94.6	136.6	161.8	169.6
100°	90.8	112.5	153.0	179.8	187.2
102.5°	114.1	136.6	171.5	197.9	205.8
105°	138.5	158.0	192.4	216.5	225.5
107.5°	165.3	182.6	215.5	237.9	244.1
110°	193.1	208.5	239.2	260.5	267.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.6	233.1	263.3	282.5	288.6
115°	250.5	260.1	288.1	306.1	311.8
117.5°	279.0	284.7	311.7	329.8	334.9
120°	306.2	312.1	336.5	354.1	358.0
122.5°	334.6	336.2	360.7	376.7	381.2
125°	360.6	363.0	384.3	399.8	404.3
127.5°	388.5	389.2	407.4	422.3	427.4
130°	414.1	415.9	431.5	445.5	449.4
132.5°	438.6	443.7	453.4	467.3	469.8
135°	465.8	468.1	475.9	489.3	492.3
137.5°	491.3	493.6	498.9	511.9	513.1
140°	514.6	517.4	520.2	532.7	534.0
142.5°	538.9	540.2	542.5	552.3	553.7
145°	562.7	564.0	565.7	570.9	573.3
147.5°	583.8	585.5	586.7	590.5	587.9
150°	605.9	605.4	607.6	607.6	607.5
152.5°	624.1	625.2	625.8	627.5	625.2
155°	642.8	642.8	643.4	645.6	642.8
157.5°	659.8	658.7	659.2	661.5	657.5
160°	674.5	672.8	673.4	675.7	672.8
162.5°	687.6	686.4	686.4	689.3	685.9
165°	698.9	697.8	698.3	700.6	697.2
167.5°	709.1	706.8	706.8	710.2	706.8
170°	717.0	714.8	714.8	718.2	714.2
172.5°	722.7	720.5	720.5	723.9	720.5
175°	726.7	724.4	724.4	727.8	723.9
177.5°	729.5	727.3	726.7	730.1	726.1
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)