

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: P1028285

Luminaire Tested: S125DIP-B850D375UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028285
REPORT IS A COMBINATION OF REPORTS P1002542 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

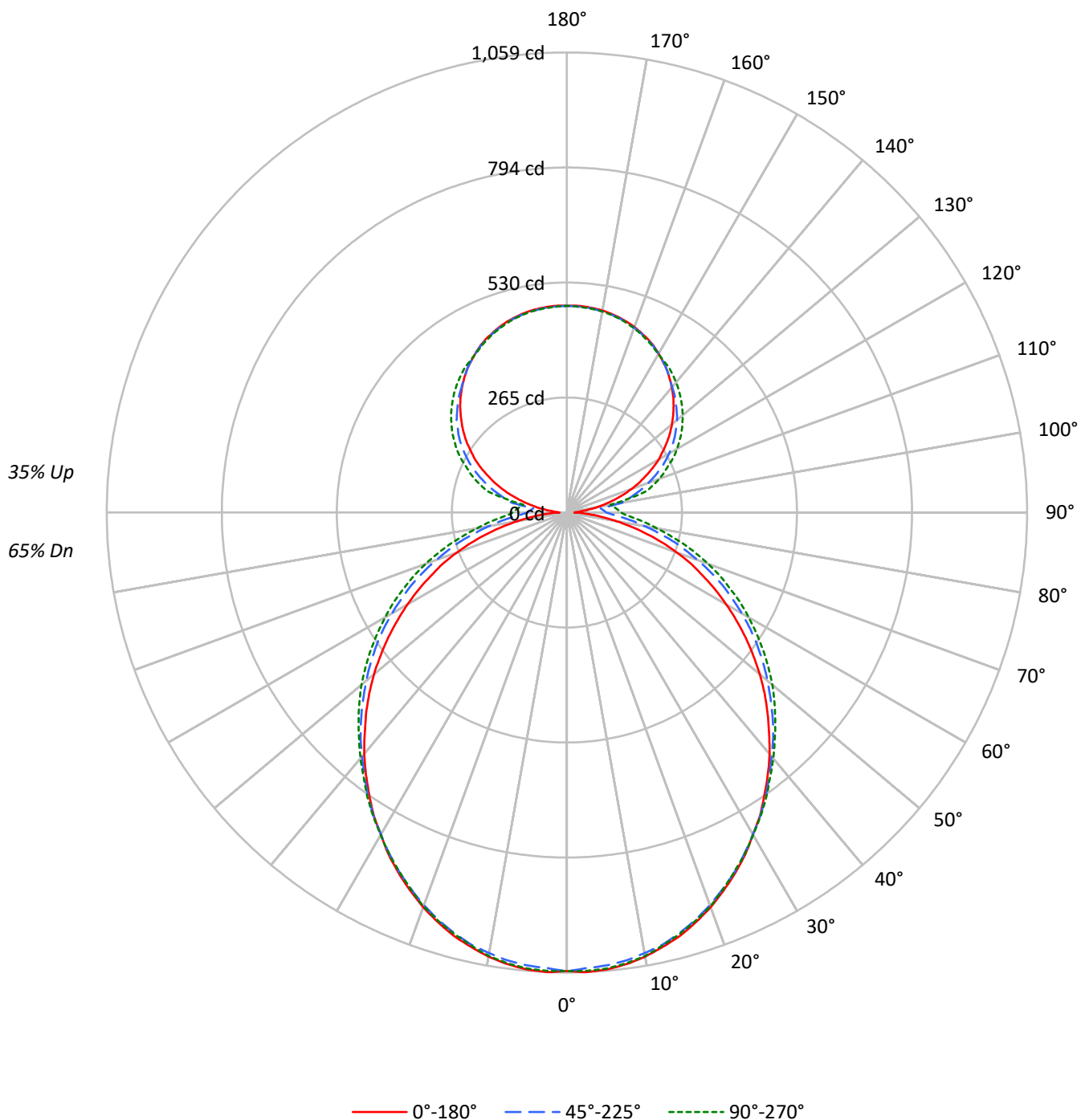
Lumens per Lamp: N/A
Luminaire Lumens: 4733.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	100	95	91	87	94	90	86	82	79	76	73	69	67	65	60	59	57
2	91	83	76	70	85	78	72	67	69	64	60	60	57	54	52	50	47
3	83	72	65	58	77	68	61	55	60	55	50	53	49	45	46	43	40
4	76	64	56	49	71	60	53	47	53	47	42	47	42	38	41	37	34
5	69	57	48	42	65	54	46	40	48	41	37	42	37	33	37	33	30
6	64	51	43	36	60	48	41	35	43	37	32	38	33	29	33	29	26
7	59	46	38	32	55	44	36	31	39	33	28	35	29	26	31	26	23
8	55	42	34	28	51	40	32	27	36	29	25	32	27	23	28	24	21
9	51	38	31	25	48	36	29	24	33	27	22	29	24	20	26	22	19
10	48	35	28	23	45	33	27	22	30	24	20	27	22	19	24	20	17

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	2.1
10°-20°	283.6	6.0
20°-30°	421.8	8.9
30°-40°	499.5	10.6
40°-50°	516.4	10.9
50°-60°	475.7	10.1
60°-70°	384.6	8.1
70°-80°	257.3	5.4
80°-90°	133.7	2.8
90°-100°	91.1	1.9
100°-110°	162.6	3.4
110°-120°	230.3	4.9
120°-130°	269.1	5.7
130°-140°	276.1	5.8
140°-150°	252.3	5.3
150°-160°	202.6	4.3
160°-170°	131.0	2.8
170°-180°	45.2	1.0
0°-30°	805.4	17.0
0°-40°	1304.9	27.6
0°-60°	2297.1	48.5
0°-90°	3072.7	64.9
90°-120°	484.0	10.2
90°-150°	1281.4	27.1
90°-180°	1660.0	35.1
0°-180°	4733.0	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	53	90	116	124	13
95°	34	59	81	106	113	35
105°	113	131	162	183	190	120
115°	201	210	237	254	258	199
125°	281	282	303	318	322	251
135°	347	348	355	368	371	268
145°	401	401	401	406	408	251
155°	441	439	439	440	438	203
165°	465	463	463	466	463	131
175°	476	474	474	477	474	45
180°	476	476	476	476	476	

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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°	17.0	52.9	90.5	116.1	124.4
92.5°	21.2	48.0	86.3	110.9	118.6
95°	33.6	59.4	81.2	105.7	113.0
97.5°	50.1	77.1	77.7	100.3	107.8
100°	70.3	93.0	127.7	96.8	101.6
102.5°	90.8	111.8	144.6	166.0	142.6
105°	113.0	131.0	162.0	182.7	189.6
107.5°	136.0	150.5	181.2	202.2	207.0
110°	158.1	170.6	200.3	218.9	226.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.0	190.5	218.7	235.9	242.5
115°	200.9	209.9	237.2	254.4	258.4
117.5°	222.8	228.0	255.2	270.7	277.3
120°	243.9	246.7	271.5	288.4	292.9
122.5°	261.5	264.4	287.5	303.3	307.4
125°	280.9	282.4	303.1	318.3	322.3
127.5°	298.6	299.4	316.6	331.4	334.8
130°	315.5	316.3	331.2	344.6	347.9
132.5°	331.5	333.6	342.8	357.3	359.8
135°	347.3	348.4	354.9	367.6	370.7
137.5°	362.1	363.2	366.7	379.1	381.4
140°	375.5	376.2	377.0	389.1	391.0
142.5°	388.6	387.9	388.6	397.9	400.0
145°	401.2	401.0	401.0	406.5	408.5
147.5°	411.5	411.5	411.9	414.3	413.9
150°	422.1	421.4	422.1	422.8	421.0
152.5°	432.3	430.6	431.3	432.0	429.5
155°	440.8	438.7	439.4	440.5	437.6
157.5°	447.5	446.4	446.4	447.5	444.7
160°	454.6	452.4	452.8	454.2	451.4
162.5°	460.2	458.1	458.4	460.6	457.4
165°	465.1	463.0	463.4	465.5	462.7
167.5°	469.0	466.9	467.3	469.7	466.5
170°	472.2	469.7	470.1	472.9	469.7
172.5°	474.3	471.8	472.5	475.0	471.8
175°	475.7	473.6	474.0	476.8	473.6
177.5°	476.8	474.7	475.0	477.5	474.7
180°	475.7	475.7	475.7	475.7	475.7

(END OF REPORT)