

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: P1028286

Luminaire Tested: S125DIP-B850D375UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028286
REPORT IS A COMBINATION OF REPORTS P1002543 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-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

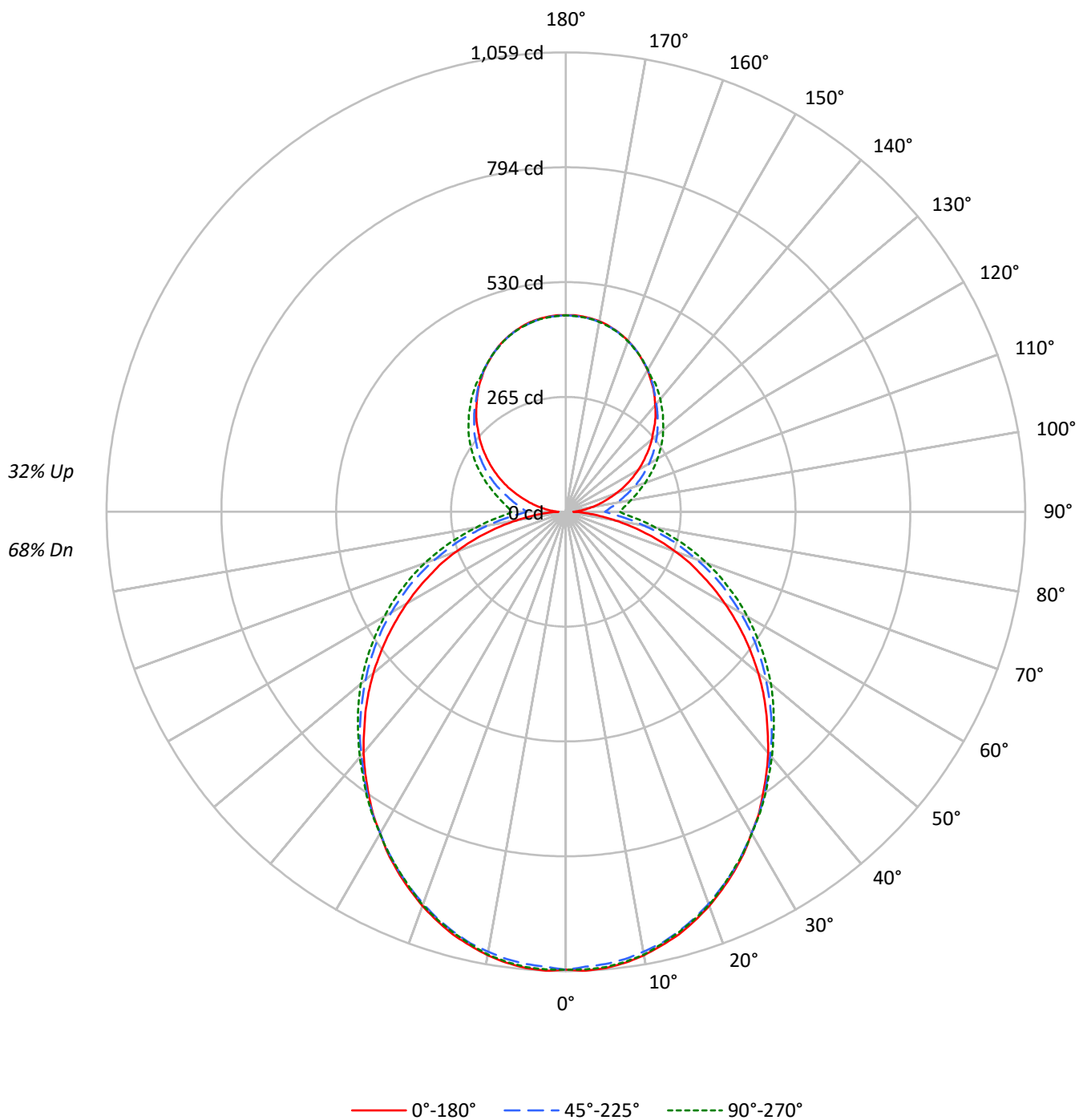
Lumens per Lamp: N/A
Luminaire Lumens: 4536.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	62	62	62
1	101	96	91	88	95	90	87	83	80	77	75	71	69	67	62	61	59	55	54	53
2	91	83	76	71	86	79	73	67	70	65	61	62	58	55	54	52	49	45	44	43
3	83	73	65	59	78	69	62	56	61	56	51	54	50	46	48	44	41	38	37	36
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	43	39	35	32	31	30
5	70	57	49	42	65	54	46	41	49	42	37	43	38	34	38	34	31	28	27	26
6	64	51	43	37	60	49	41	35	44	37	32	39	34	30	35	30	27	24	23	22
7	59	46	38	32	56	44	36	31	40	33	29	36	30	26	32	27	24	21	20	19
8	55	42	34	28	52	40	33	27	36	30	25	33	27	23	29	25	21	19	18	17
9	51	39	31	25	48	37	30	25	33	27	23	30	25	21	27	22	19	17	16	15
10	48	35	28	23	45	34	27	22	31	25	21	28	23	19	25	21	18	16	15	14

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	2.2
10°-20°	283.6	6.3
20°-30°	421.8	9.3
30°-40°	499.5	11.0
40°-50°	516.4	11.4
50°-60°	475.7	10.5
60°-70°	384.6	8.5
70°-80°	257.3	5.7
80°-90°	133.7	2.9
90°-100°	105.0	2.3
100°-110°	144.7	3.2
110°-120°	188.8	4.2
120°-130°	220.7	4.9
130°-140°	233.0	5.1
140°-150°	221.3	4.9
150°-160°	184.3	4.1
160°-170°	122.5	2.7
170°-180°	42.9	0.9
0°-30°	805.4	17.8
0°-40°	1304.9	28.8
0°-60°	2297.1	50.6
0°-90°	3072.7	67.7
90°-120°	438.5	9.7
90°-150°	1113.6	24.5
90°-180°	1463.0	32.3
0°-180°	4536.0	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°	36	64	103	128	136	35
105°	90	108	141	164	172	96
115°	158	167	194	213	219	156
125°	226	227	248	264	269	202
135°	290	292	299	312	316	224
145°	350	351	352	357	360	219
155°	400	400	400	402	400	184
165°	435	434	434	436	434	123
175°	452	450	450	453	450	43
180°	453	453	453	453	453	

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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°	25.1	56.8	96.2	121.5	129.5
95°	36.4	64.0	102.7	127.9	135.9
97.5°	47.7	72.9	111.9	135.9	143.4
100°	60.8	82.5	120.2	145.1	152.0
102.5°	74.9	96.3	130.1	154.4	161.6
105°	89.7	108.0	141.2	164.0	172.3
107.5°	106.0	122.2	154.0	175.7	181.9
110°	122.8	137.1	167.2	187.8	194.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	151.3	180.6	199.5	206.1
115°	158.1	166.9	194.5	212.7	218.6
117.5°	175.5	181.0	207.5	225.5	231.4
120°	192.4	197.3	221.4	239.0	243.8
122.5°	209.6	211.1	234.9	251.1	256.2
125°	225.8	227.0	248.0	263.9	268.7
127.5°	242.8	242.9	260.8	276.0	281.5
130°	258.7	259.4	274.7	288.8	293.2
132.5°	273.5	276.7	286.7	300.8	304.0
135°	290.5	291.5	299.1	312.5	316.3
137.5°	306.3	307.3	312.3	325.0	327.3
140°	320.4	322.2	324.3	336.4	338.8
142.5°	335.6	336.0	337.4	347.0	349.5
145°	350.4	350.8	351.8	357.0	360.1
147.5°	363.1	364.2	364.9	368.0	367.2
150°	376.9	376.5	377.9	377.9	378.2
152.5°	388.1	388.8	389.2	390.3	388.8
155°	399.8	399.8	400.1	401.5	399.8
157.5°	410.3	409.6	410.0	411.4	408.9
160°	419.5	418.5	418.8	420.2	418.5
162.5°	427.6	426.9	426.9	428.7	426.6
165°	434.7	434.0	434.3	435.7	433.6
167.5°	441.0	439.6	439.6	441.7	439.6
170°	446.0	444.5	444.5	446.7	444.2
172.5°	449.5	448.1	448.1	450.2	448.1
175°	451.9	450.5	450.5	452.7	450.2
177.5°	453.7	452.3	451.9	454.1	451.6
180°	453.0	453.0	453.0	453.0	453.0

(END OF REPORT)