

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: P1028287

Luminaire Tested: S125DIP-B850D375UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028287
REPORT IS A COMBINATION OF REPORTS P1002544 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB27-4F0-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

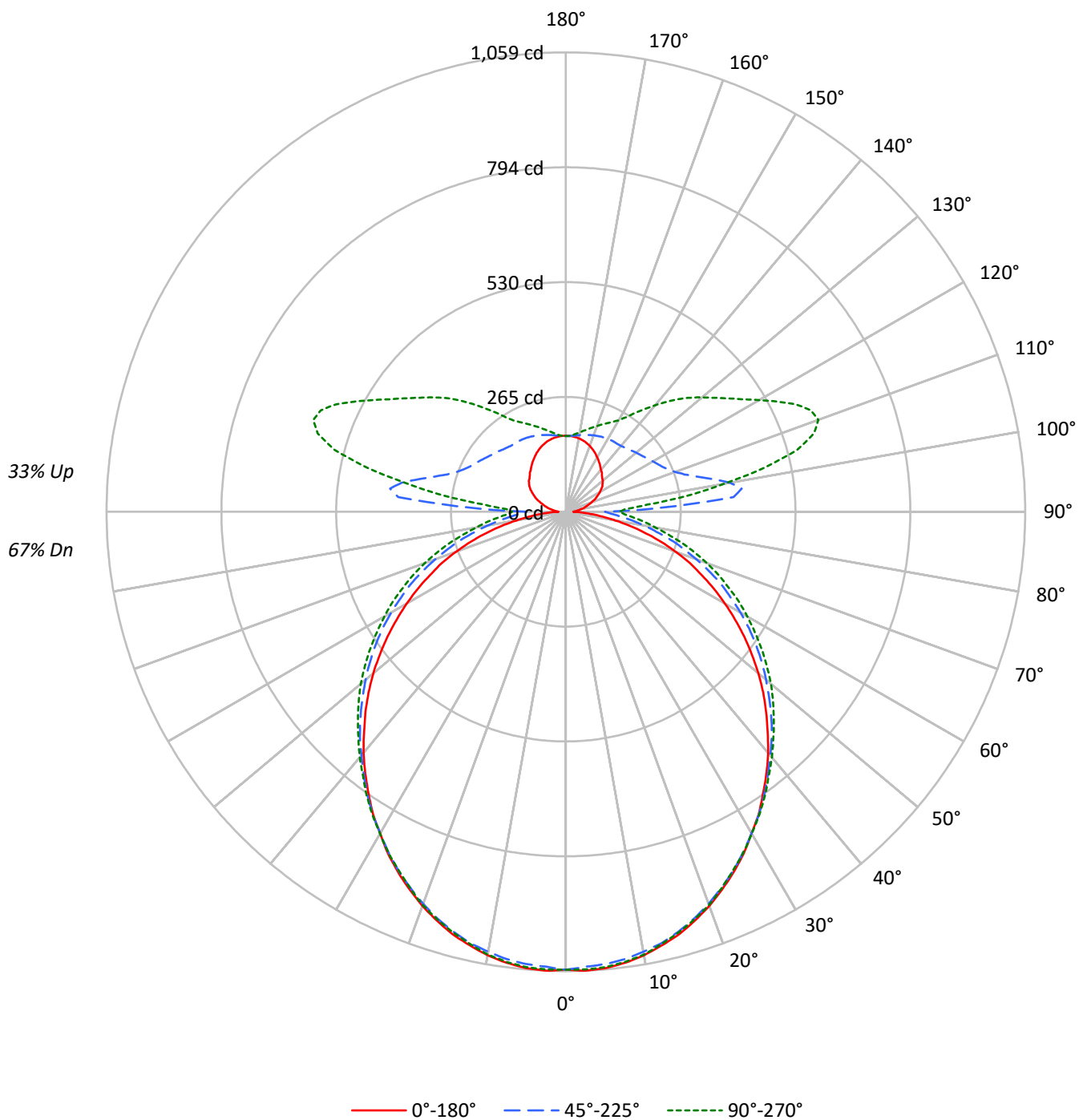
Lumens per Lamp: N/A
Luminaire Lumens: 4587.7 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	105	105	105	105	93	93	93	82	82	82	72	72	72
1	101	96	91	87	95	90	86	83	80	77	74	71	68	66	62	60	59
2	91	83	76	71	86	78	72	67	70	65	61	61	58	55	54	51	49
3	83	73	65	58	78	69	62	56	61	55	51	54	50	46	47	44	41
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35
5	70	57	49	42	65	54	46	40	48	42	37	43	38	34	38	34	30
6	64	51	43	37	60	49	41	35	44	37	32	39	34	29	34	30	27
7	59	46	38	32	56	44	36	31	40	33	28	35	30	26	31	27	24
8	55	42	34	28	52	40	33	27	36	30	25	32	27	23	29	24	21
9	51	39	31	25	48	37	29	24	33	27	23	30	25	21	27	22	19
10	48	35	28	23	45	34	27	22	31	25	20	28	22	19	25	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	2.2
10°-20°	283.6	6.2
20°-30°	421.8	9.2
30°-40°	499.5	10.9
40°-50°	516.4	11.3
50°-60°	475.7	10.4
60°-70°	384.6	8.4
70°-80°	257.3	5.6
80°-90°	133.7	2.9
90°-100°	206.6	4.5
100°-110°	328.7	7.2
110°-120°	292.4	6.4
120°-130°	227.6	5.0
130°-140°	175.2	3.8
140°-150°	127.2	2.8
150°-160°	88.3	1.9
160°-170°	52.0	1.1
170°-180°	16.9	0.4
0°-30°	805.4	17.6
0°-40°	1304.9	28.4
0°-60°	2297.1	50.1
0°-90°	3072.7	67.0
90°-120°	827.7	18.0
90°-150°	1357.8	29.6
90°-180°	1515.0	33.0
0°-180°	4587.7	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	12
95°	25	75	388	240	188	23
105°	49	82	312	581	552	52
115°	77	99	246	501	586	76
125°	103	119	220	392	456	91
135°	118	140	204	317	367	91
145°	136	154	196	249	278	85
155°	154	165	191	216	225	71
165°	168	172	183	194	197	47
175°	174	174	176	178	177	17
180°	175	175	175	175	175	

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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	52.8	90.5	116.2	124.0
92.5°	19.8	73.4	221.4	141.0	136.9
95°	25.1	74.8	387.9	240.0	188.4
97.5°	30.4	74.5	408.8	349.2	281.9
100°	36.1	75.8	384.6	449.7	369.2
102.5°	42.5	78.8	346.9	534.0	468.3
105°	49.1	81.6	312.5	580.8	552.0
107.5°	55.5	85.7	286.5	591.4	599.7
110°	62.5	90.2	268.0	572.2	619.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.7	94.7	255.3	538.0	611.5
115°	77.4	99.3	245.6	501.2	585.5
117.5°	83.5	104.2	238.2	466.4	550.0
120°	90.5	109.6	232.0	437.5	514.5
122.5°	96.8	114.0	226.1	412.4	482.5
125°	102.8	118.7	220.5	392.2	455.5
127.5°	106.7	124.4	215.7	373.3	431.3
130°	111.3	130.8	211.9	355.2	410.2
132.5°	113.8	136.4	207.7	336.0	389.3
135°	117.7	140.0	203.6	316.6	367.4
137.5°	122.7	144.4	200.9	297.5	343.9
140°	125.8	148.2	198.1	279.7	320.4
142.5°	130.7	150.7	196.4	263.6	298.3
145°	135.7	154.2	196.0	249.4	277.9
147.5°	140.0	157.4	195.3	237.4	258.3
150°	144.5	160.2	194.2	228.1	243.5
152.5°	149.5	163.0	192.8	221.9	233.4
155°	153.7	165.4	191.1	216.0	225.3
157.5°	157.6	167.6	189.3	210.3	217.9
160°	161.5	169.4	187.5	204.6	210.5
162.5°	164.6	171.2	185.4	199.6	203.8
165°	167.8	172.4	183.3	194.4	197.4
167.5°	169.9	173.1	181.2	189.7	191.4
170°	172.0	174.0	179.4	185.0	186.1
172.5°	173.4	174.3	177.3	181.4	181.2
175°	174.5	174.5	175.9	178.0	177.3
177.5°	175.2	174.5	174.9	175.9	174.9
180°	174.9	174.9	174.9	174.9	174.9

(END OF REPORT)