

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: P1027880

Luminaire Tested: S125DIP-B375D375UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027880
REPORT IS A COMBINATION OF REPORTS P1001996 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB50-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

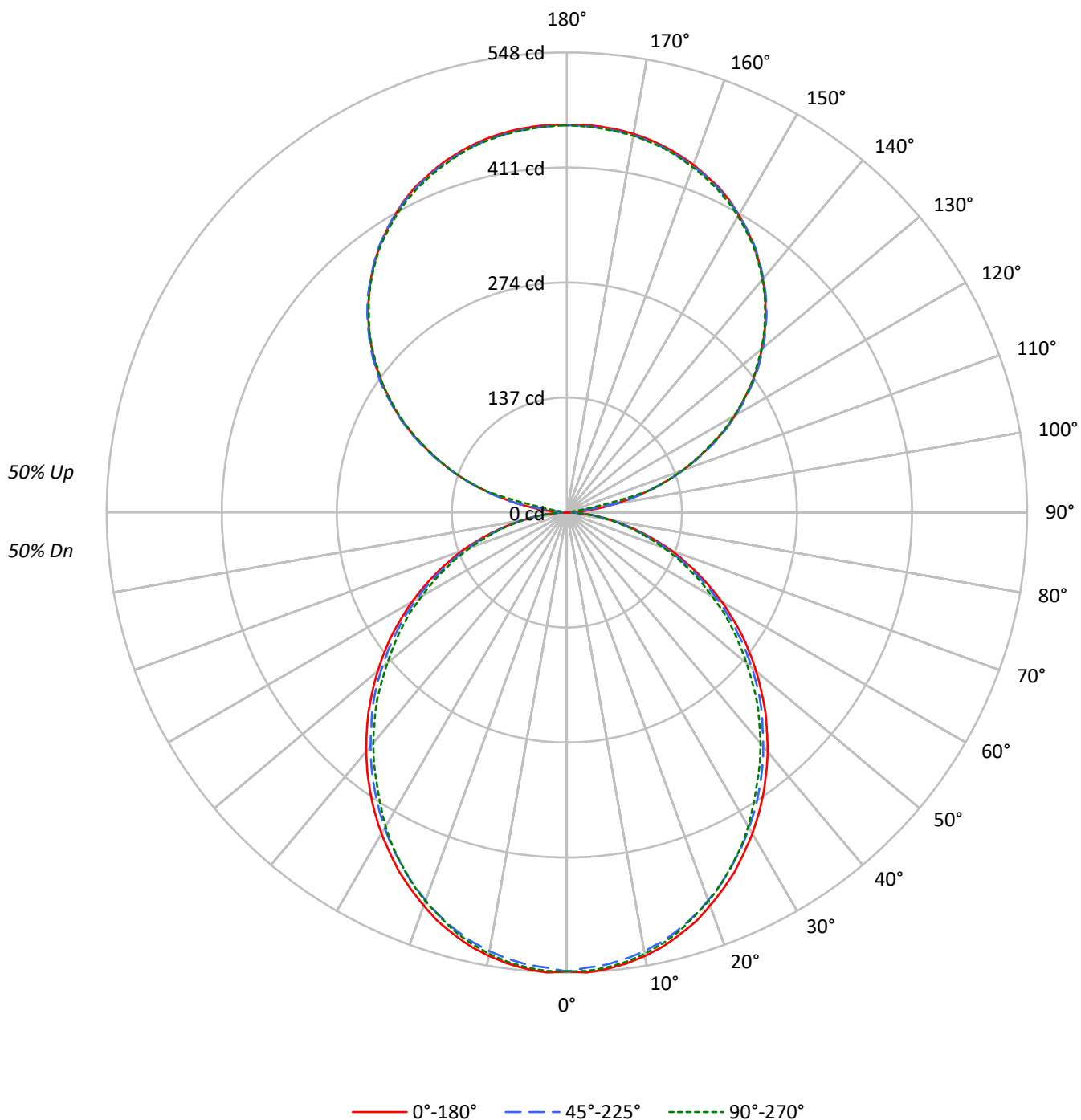
Lumens per Lamp: N/A
Luminaire Lumens: 2841.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	93	89	86	90	86	83	80	73	71	68	61	59	58	50	48	47
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40
3	81	72	64	58	75	66	60	55	56	52	48	47	44	41	39	36	34
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	29
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	22	20
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16
10	47	35	27	23	43	32	26	22	28	23	19	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3503	3422	3428
10°	3474	3343	3333
15°	3428	3249	3221
20°	3367	3141	3091
25°	3300	3022	2953
30°	3221	2898	2808
35°	3136	2769	2645
40°	3047	2632	2500
45°	2952	2498	2346
50°	2847	2346	2166
55°	2743	2180	2001
60°	2619	2004	1809
65°	2471	1800	1611
70°	2321	1566	1382
75°	2067	1289	1117
80°	1761	962	821
85°	1361	569	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2952 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.8
10°-20°	145.7	5.1
20°-30°	215.1	7.6
30°-40°	251.0	8.8
40°-50°	252.1	8.9
50°-60°	221.3	7.8
60°-70°	164.8	5.8
70°-80°	94.1	3.3
80°-90°	27.9	1.0
90°-100°	15.7	0.6
100°-110°	104.1	3.7
110°-120°	187.5	6.6
120°-130°	240.7	8.5
130°-140°	258.9	9.1
140°-150°	243.0	8.6
150°-160°	196.5	6.9
160°-170°	127.1	4.5
170°-180°	43.8	1.5
0°-30°	412.5	14.5
0°-40°	663.5	23.4
0°-60°	1136.8	40.0
0°-90°	1423.7	50.1
90°-120°	307.3	10.8
90°-150°	1049.8	37.0
90°-180°	1417.0	49.9
0°-180°	2841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	26
90°	0	3	6	7	8	3
95°	20	18	6	7	7	24
105°	101	102	102	102	102	107
115°	189	190	191	190	187	187
125°	268	271	271	270	268	240
135°	335	337	336	336	334	258
145°	388	389	389	389	387	243
155°	428	426	426	427	424	197
165°	451	449	449	452	449	127
175°	461	459	460	462	459	44
180°	461	461	461	461	461	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	548.5	547.2	542.8	547.2	546.7
5°	545.9	545.0	540.7	544.6	544.1
7.5°	542.0	541.1	536.3	540.2	539.8
10°	536.3	535.5	530.7	534.2	533.8
12.5°	529.4	527.7	523.4	526.0	526.0
15°	520.3	519.0	514.3	516.5	516.5
17.5°	510.8	508.7	503.9	506.5	504.3
20°	498.3	497.4	491.8	494.8	492.7
22.5°	485.7	484.0	478.8	480.6	479.3
25°	472.3	470.2	464.5	465.4	464.1
27.5°	456.8	455.5	449.8	450.3	449.0
30°	441.6	440.3	433.8	433.0	431.7
32.5°	425.2	423.0	417.4	415.7	413.1
35°	407.9	406.2	400.1	397.9	394.5
37.5°	390.1	388.0	382.4	379.3	377.2
40°	372.0	369.8	363.8	359.9	358.6
42.5°	352.5	350.8	344.7	341.3	339.1
45°	333.9	332.2	327.0	321.8	320.5
47.5°	313.6	314.0	307.5	302.3	299.3
50°	294.1	292.8	287.6	282.0	279.0
52.5°	274.2	273.4	267.7	263.0	259.5
55°	254.3	253.0	247.0	243.1	240.1
57.5°	233.1	232.7	227.5	222.3	221.0
60°	213.2	211.5	206.8	202.4	199.4
62.5°	192.5	191.2	187.3	182.5	180.4
65°	171.7	170.9	166.1	162.2	160.5
67.5°	151.4	149.7	146.2	142.7	141.9
70°	132.4	130.2	126.3	123.7	122.0
72.5°	111.6	110.3	108.1	105.1	103.4
75°	91.3	90.4	88.2	86.9	85.2
77.5°	72.2	71.8	70.5	69.6	68.3
80°	54.5	54.5	53.6	53.2	52.3
82.5°	38.9	38.1	38.1	37.2	37.2
85°	23.8	24.2	24.2	23.8	22.9
87.5°	11.7	11.7	11.2	11.2	10.4
90°	0.3	3.1	5.5	7.2	8.2
92.5°	6.5	3.4	5.5	7.2	7.5
95°	19.5	18.5	5.5	7.2	7.2
97.5°	36.6	38.6	6.2	6.8	7.2
100°	57.1	58.1	59.5	8.6	7.2
102.5°	78.0	79.4	80.0	80.7	52.0
105°	100.6	101.9	101.9	101.9	101.6
107.5°	123.8	123.8	124.5	124.8	123.5
110°	146.4	146.4	147.1	146.0	146.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.6	168.6	169.0	167.6	166.9
115°	188.8	190.5	190.9	189.5	187.4
117.5°	211.0	211.0	212.4	210.3	209.7
120°	231.6	231.2	232.2	231.6	229.8
122.5°	249.7	251.4	251.7	251.0	249.0
125°	268.5	270.9	270.9	269.5	268.5
127.5°	286.6	288.3	288.0	287.3	284.6
130°	303.0	304.7	305.1	304.1	302.4
132.5°	319.5	321.5	320.5	320.5	318.8
135°	334.8	336.9	336.2	335.5	333.5
137.5°	349.2	351.3	350.6	350.6	348.9
140°	363.2	363.9	363.6	364.3	362.2
142.5°	375.9	376.2	376.9	376.9	374.9
145°	388.2	388.9	388.9	389.2	387.2
147.5°	399.1	399.1	399.5	399.8	397.4
150°	409.4	408.7	409.4	410.1	407.4
152.5°	419.3	417.6	418.3	419.0	416.6
155°	427.5	425.5	426.2	427.2	424.5
157.5°	434.0	433.0	433.0	434.0	431.3
160°	440.9	438.8	439.2	440.5	437.8
162.5°	446.3	444.3	444.6	446.7	443.6
165°	451.1	449.1	449.4	451.5	448.7
167.5°	454.9	452.8	453.2	455.6	452.5
170°	458.0	455.6	455.9	458.7	455.6
172.5°	460.0	457.6	458.3	460.7	457.6
175°	461.4	459.3	459.7	462.4	459.3
177.5°	462.4	460.4	460.7	463.1	460.4
180°	461.4	461.4	461.4	461.4	461.4

(END OF REPORT)