

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: P1027881

Luminaire Tested: S125DIP-B375D375UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027881
REPORT IS A COMBINATION OF REPORTS P1001997 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-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

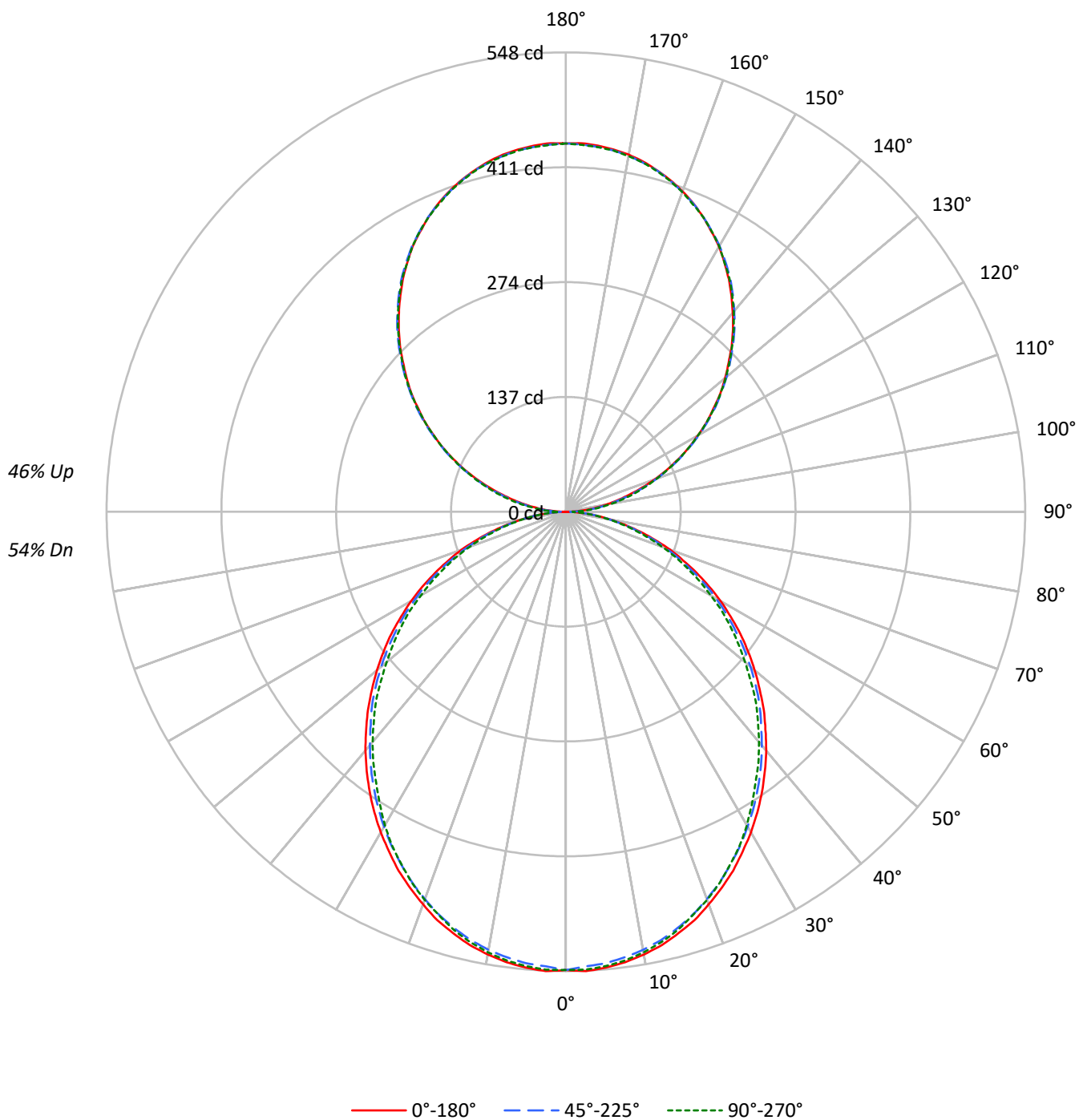
Lumens per Lamp: N/A
Luminaire Lumens: 2650.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	53	51	50
2	90	82	76	71	83	76	71	66	66	61	58	55	53	50	46	44	42
3	82	72	65	59	76	67	61	55	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	60	52	47	51	46	41	44	39	36	37	33	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	30	27
6	63	51	43	37	58	48	40	35	41	36	31	35	31	27	30	26	24
7	59	46	38	32	54	43	36	31	38	32	28	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	29	24	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	21	18	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	1.9
10°-20°	145.7	5.5
20°-30°	215.1	8.1
30°-40°	251.0	9.5
40°-50°	252.1	9.5
50°-60°	221.3	8.4
60°-70°	164.8	6.2
70°-80°	94.1	3.6
80°-90°	27.9	1.1
90°-100°	29.2	1.1
100°-110°	86.8	3.3
110°-120°	147.2	5.6
120°-130°	193.8	7.3
130°-140°	217.2	8.2
140°-150°	212.9	8.0
150°-160°	178.8	6.7
160°-170°	118.9	4.5
170°-180°	41.6	1.6
0°-30°	412.5	15.6
0°-40°	663.5	25.0
0°-60°	1136.8	42.9
0°-90°	1423.7	53.7
90°-120°	263.2	9.9
90°-150°	887.1	33.5
90°-180°	1226.0	46.3
0°-180°	2650.0	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°	22	23	26	29	29	23
105°	78	80	82	84	85	83
115°	147	149	149	149	149	146
125°	215	217	218	217	216	193
135°	280	282	282	282	281	216
145°	339	340	341	341	340	212
155°	388	388	388	390	388	179
165°	422	421	421	423	421	119
175°	438	437	437	439	437	42
180°	439	439	439	439	439	

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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°	10.3	12.0	15.0	17.4	18.1
95°	22.2	22.9	26.3	28.7	29.4
97.5°	34.2	34.5	39.3	41.4	41.7
100°	47.9	47.9	52.3	55.4	56.1
102.5°	62.6	64.3	66.0	69.4	70.4
105°	78.0	79.7	81.7	83.8	84.8
107.5°	94.7	96.4	98.1	99.2	99.2
110°	112.2	113.9	114.9	115.9	115.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	130.6	132.0	132.3	131.6
115°	147.4	148.7	149.4	149.1	148.7
117.5°	165.2	165.5	166.2	166.5	165.2
120°	181.6	183.3	183.6	183.6	182.3
122.5°	199.4	199.7	200.7	200.4	199.4
125°	215.1	217.1	217.5	216.8	216.4
127.5°	232.5	233.5	233.9	233.5	232.9
130°	247.9	249.6	250.3	250.0	249.3
132.5°	263.3	266.4	266.0	265.7	264.7
135°	279.7	281.8	282.1	282.1	280.7
137.5°	295.1	297.1	297.8	298.2	296.5
140°	309.8	311.5	312.5	313.2	311.5
142.5°	324.5	325.9	327.2	327.6	325.9
145°	338.9	340.2	341.3	341.3	340.2
147.5°	352.2	353.2	353.9	354.9	352.2
150°	365.5	365.2	366.6	366.6	365.9
152.5°	376.5	377.2	377.5	378.5	377.2
155°	387.8	387.8	388.1	389.5	387.8
157.5°	398.0	397.3	397.7	399.0	396.7
160°	406.9	405.9	406.2	407.6	405.9
162.5°	414.8	414.1	414.1	415.8	413.7
165°	421.6	420.9	421.3	422.6	420.6
167.5°	427.8	426.4	426.4	428.5	426.4
170°	432.6	431.2	431.2	433.2	430.8
172.5°	436.0	434.6	434.6	436.7	434.6
175°	438.4	437.0	437.0	439.1	436.7
177.5°	440.1	438.7	438.4	440.4	438.0
180°	439.4	439.4	439.4	439.4	439.4

(END OF REPORT)