

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: P1027863

Luminaire Tested: S125DIP-B375D375UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027863
REPORT IS A COMBINATION OF REPORTS P1001979 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

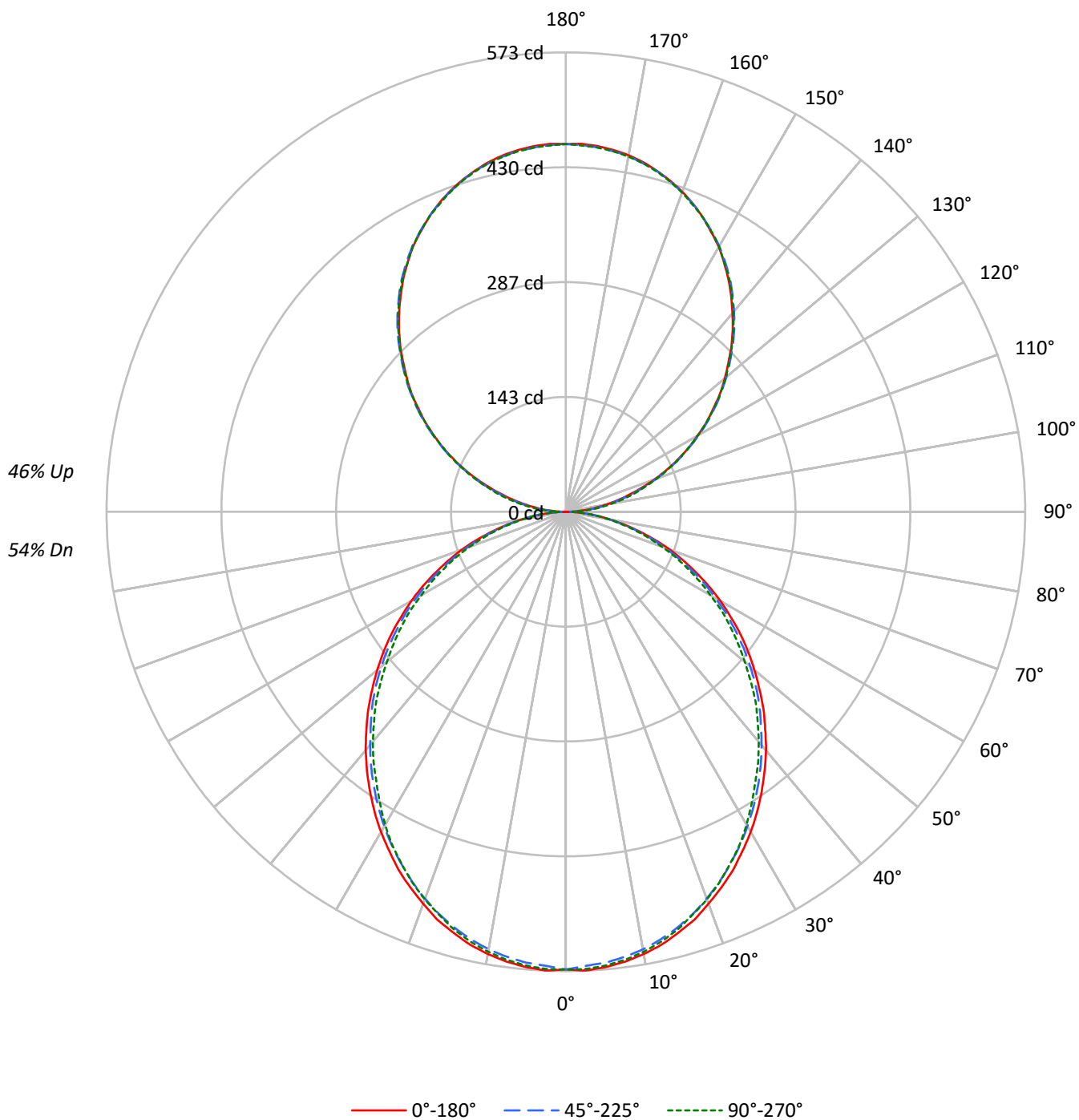
Lumens per Lamp: N/A
Luminaire Lumens: 2767.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	40	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	33	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°	3658	3658	3658
5°	3658	3573	3580
10°	3628	3491	3480
15°	3580	3393	3363
20°	3516	3280	3228
25°	3446	3156	3084
30°	3364	3026	2932
35°	3274	2891	2761
40°	3183	2748	2610
45°	3083	2609	2450
50°	2973	2451	2262
55°	2865	2276	2090
60°	2735	2092	1889
65°	2580	1879	1682
70°	2423	1635	1443
75°	2158	1346	1167
80°	1839	1005	859
85°	1418	595	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.9
10°-20°	152.2	5.5
20°-30°	224.7	8.1
30°-40°	262.1	9.5
40°-50°	263.3	9.5
50°-60°	231.1	8.4
60°-70°	172.1	6.2
70°-80°	98.3	3.6
80°-90°	29.1	1.1
90°-100°	30.5	1.1
100°-110°	90.6	3.3
110°-120°	153.7	5.6
120°-130°	202.3	7.3
130°-140°	226.7	8.2
140°-150°	222.2	8.0
150°-160°	186.7	6.7
160°-170°	124.1	4.5
170°-180°	43.4	1.6
0°-30°	430.7	15.6
0°-40°	692.8	25.0
0°-60°	1187.2	42.9
0°-90°	1486.7	53.7
90°-120°	274.8	9.9
90°-150°	926.1	33.5
90°-180°	1280.0	46.3
0°-180°	2767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	570	569	565	569	568	54
15°	543	542	537	539	539	153
25°	493	491	485	486	485	227
35°	426	424	418	416	412	266
45°	349	347	342	336	335	269
55°	266	264	258	254	251	237
65°	179	178	173	169	168	178
75°	95	94	92	91	89	101
85°	25	25	25	25	24	27
90°	0	3	6	8	9	3
95°	23	24	28	30	31	24
105°	81	83	85	88	88	87
115°	154	155	156	156	155	152
125°	224	227	227	226	226	201
135°	292	294	294	294	293	225
145°	354	355	356	356	355	221
155°	405	405	405	407	405	186
165°	440	440	440	441	439	124
175°	458	456	456	458	456	43
180°	459	459	459	459	459	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.9	570.9	570.9	570.9	570.9
2.5°	572.7	571.4	566.9	571.4	570.9
5°	570.0	569.1	564.6	568.7	568.2
7.5°	566.0	565.1	560.1	564.2	563.7
10°	560.1	559.2	554.2	557.8	557.4
12.5°	552.9	551.1	546.5	549.3	549.3
15°	543.4	542.0	537.1	539.3	539.3
17.5°	533.4	531.2	526.2	528.9	526.7
20°	520.3	519.4	513.6	516.7	514.5
22.5°	507.2	505.4	500.0	501.8	500.5
25°	493.2	491.0	485.1	486.0	484.7
27.5°	477.0	475.6	469.8	470.2	468.9
30°	461.2	459.8	453.0	452.1	450.8
32.5°	444.0	441.8	435.9	434.1	431.4
35°	425.9	424.1	417.8	415.6	411.9
37.5°	407.4	405.2	399.3	396.1	393.9
40°	388.5	386.2	379.9	375.8	374.4
42.5°	368.1	366.3	360.0	356.4	354.1
45°	348.7	346.9	341.5	336.1	334.7
47.5°	327.5	327.9	321.2	315.7	312.6
50°	307.1	305.8	300.4	294.5	291.3
52.5°	286.4	285.5	279.6	274.6	271.0
55°	265.6	264.2	257.9	253.8	250.7
57.5°	243.5	243.0	237.6	232.2	230.8
60°	222.7	220.9	215.9	211.4	208.2
62.5°	201.0	199.6	195.6	190.6	188.4
65°	179.3	178.4	173.4	169.4	167.6
67.5°	158.1	156.3	152.7	149.1	148.2
70°	138.2	136.0	131.9	129.2	127.4
72.5°	116.5	115.2	112.9	109.8	108.0
75°	95.3	94.4	92.1	90.8	89.0
77.5°	75.4	75.0	73.6	72.7	71.4
80°	56.9	56.9	56.0	55.6	54.7
82.5°	40.7	39.7	39.7	38.8	38.8
85°	24.8	25.3	25.3	24.8	23.9
87.5°	12.2	12.2	11.7	11.7	10.8
90°	0.4	3.2	5.7	7.5	8.6
92.5°	10.7	12.5	15.7	18.2	18.9
95°	23.2	23.9	27.5	30.0	30.7
97.5°	35.7	36.1	41.1	43.2	43.6
100°	50.0	50.0	54.6	57.8	58.5
102.5°	65.3	67.1	68.9	72.5	73.5
105°	81.4	83.2	85.3	87.5	88.5
107.5°	98.9	100.7	102.5	103.5	103.5
110°	117.1	118.9	119.9	121.0	120.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.7	136.4	137.8	138.2	137.4
115°	153.9	155.3	156.0	155.6	155.3
117.5°	172.4	172.8	173.5	173.9	172.4
120°	189.6	191.3	191.7	191.7	190.3
122.5°	208.1	208.5	209.6	209.2	208.1
125°	224.5	226.7	227.0	226.3	226.0
127.5°	242.8	243.8	244.2	243.8	243.1
130°	258.8	260.6	261.3	261.0	260.2
132.5°	274.9	278.1	277.7	277.4	276.3
135°	292.0	294.2	294.5	294.5	293.1
137.5°	308.1	310.2	310.9	311.3	309.5
140°	323.4	325.2	326.3	327.0	325.2
142.5°	338.8	340.2	341.6	342.0	340.2
145°	353.8	355.2	356.3	356.3	355.2
147.5°	367.7	368.8	369.5	370.6	367.7
150°	381.6	381.3	382.7	382.7	382.0
152.5°	393.0	393.8	394.1	395.2	393.8
155°	404.8	404.8	405.2	406.6	404.8
157.5°	415.5	414.8	415.2	416.6	414.1
160°	424.8	423.7	424.1	425.5	423.7
162.5°	433.0	432.3	432.3	434.1	432.0
165°	440.2	439.5	439.8	441.2	439.1
167.5°	446.6	445.2	445.2	447.3	445.2
170°	451.6	450.2	450.2	452.3	449.8
172.5°	455.2	453.7	453.7	455.9	453.7
175°	457.7	456.2	456.2	458.4	455.9
177.5°	459.4	458.0	457.7	459.8	457.3
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)