

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: P1027951

Luminaire Tested: S125DIP-B375D850UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027951
REPORT IS A COMBINATION OF REPORTS P1002097 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

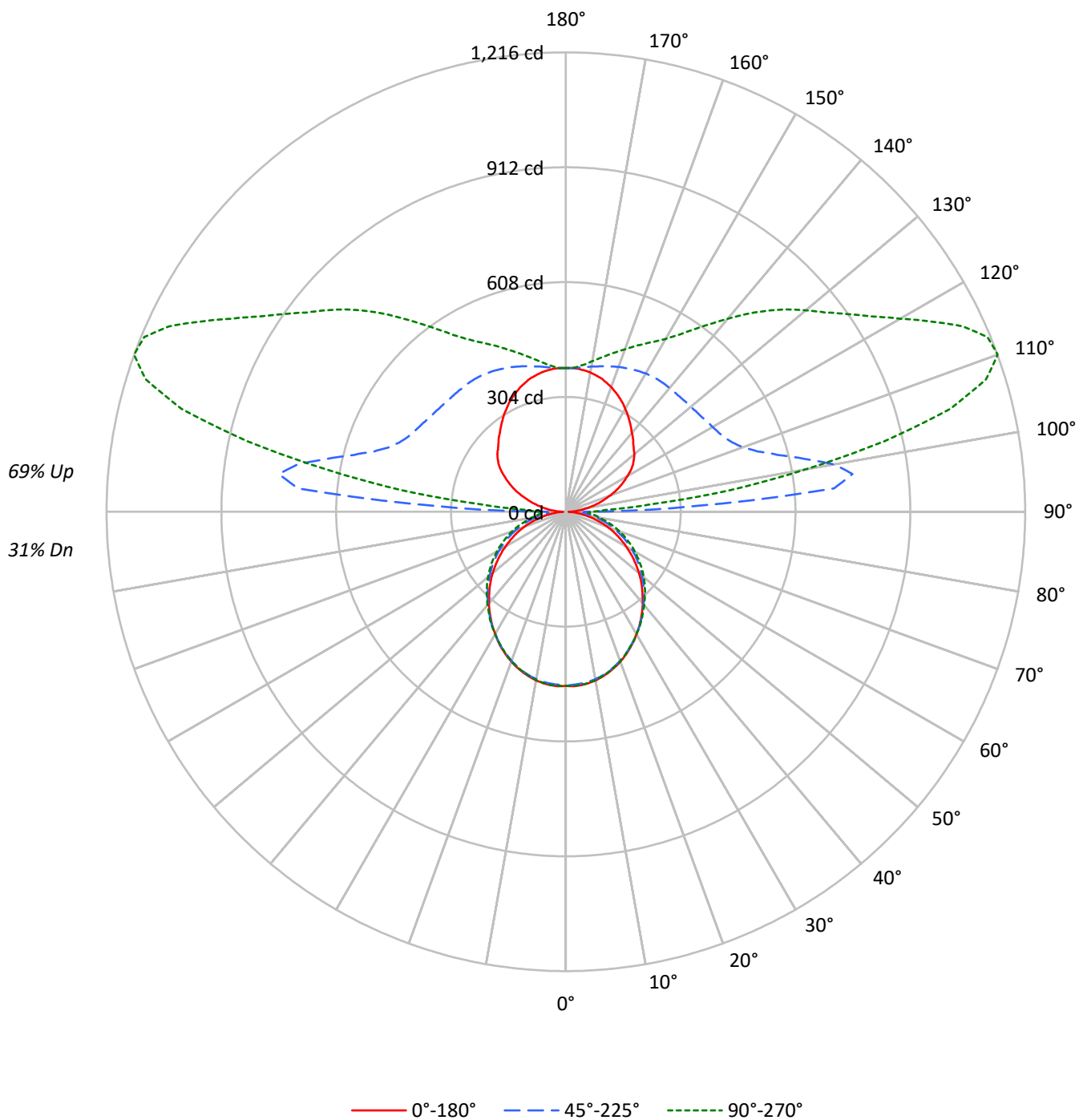
Lumens per Lamp: N/A
Luminaire Lumens: 4292.9 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
Input Current (A_{in}): 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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	93	89	85	81	83	80	76	73	63	61	59	48	46	45	34	33	32
2	85	77	71	66	76	69	64	60	55	51	48	42	39	37	29	28	26
3	77	68	60	55	69	61	55	50	48	44	40	37	34	31	26	24	22
4	70	60	52	46	63	54	47	42	43	38	34	32	29	26	23	21	19
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	18	17
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	16	14
7	55	43	35	29	49	39	32	27	31	26	22	24	20	17	17	15	13
8	51	38	31	26	45	35	28	24	28	23	19	22	18	15	16	13	11
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	14	12	10
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2954	2954	2954
5°	2958	2892	2899
10°	2936	2833	2825
15°	2900	2764	2734
20°	2852	2681	2643
25°	2795	2593	2534
30°	2725	2497	2434
35°	2661	2408	2342
40°	2595	2315	2250
45°	2521	2234	2166
50°	2450	2146	2092
55°	2364	2062	2004
60°	2270	1966	1915
65°	2171	1866	1815
70°	2060	1731	1709
75°	1884	1598	1582
80°	1651	1436	1440
85°	1424	1307	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.0
10°-20°	123.8	2.9
20°-30°	184.1	4.3
30°-40°	218.1	5.1
40°-50°	225.5	5.3
50°-60°	207.7	4.8
60°-70°	167.9	3.9
70°-80°	112.3	2.6
80°-90°	59.6	1.4
90°-100°	319.2	7.4
100°-110°	619.2	14.4
110°-120°	572.0	13.3
120°-130°	458.9	10.7
130°-140°	365.4	8.5
140°-150°	273.6	6.4
150°-160°	192.1	4.5
160°-170°	113.2	2.6
170°-180°	36.8	0.9
0°-30°	351.6	8.2
0°-40°	569.7	13.3
0°-60°	1002.8	23.4
0°-90°	1342.6	31.3
90°-120°	1510.4	35.2
90°-150°	2608.2	60.8
90°-180°	2950.0	68.7
0°-180°	4292.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	460	457	460	460	44
15°	440	441	438	440	438	124
25°	400	401	399	400	398	184
35°	346	349	348	349	349	217
45°	285	290	292	296	296	220
55°	219	226	234	239	240	196
65°	151	161	172	179	181	150
75°	83	95	109	118	121	88
85°	25	40	56	66	69	26
90°	8	29	49	64	68	7
95°	31	92	713	351	226	31
105°	91	132	581	1129	1053	96
115°	158	193	464	988	1161	155
125°	217	253	438	783	912	192
135°	252	303	428	651	753	196
145°	294	336	426	533	589	184
155°	334	360	416	470	490	154
165°	365	375	399	423	430	103
175°	380	380	383	387	386	36
180°	380	380	380	380	380	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	462.3	461.4	458.3	461.4	461.0
5°	461.0	460.1	456.9	460.5	460.1
7.5°	457.8	457.4	454.2	457.4	456.9
10°	453.3	453.3	449.7	452.8	452.4
12.5°	447.0	447.4	444.7	447.0	445.6
15°	440.2	440.6	437.5	440.2	438.4
17.5°	431.6	432.5	429.3	431.6	430.2
20°	422.1	423.0	419.8	421.2	421.2
22.5°	411.3	413.1	409.4	411.3	409.9
25°	400.0	401.3	398.6	400.4	398.2
27.5°	387.8	389.6	386.4	387.8	386.9
30°	373.7	376.5	373.7	374.6	374.2
32.5°	361.1	363.4	361.5	362.4	362.0
35°	346.2	349.3	348.0	349.3	349.3
37.5°	331.7	334.4	334.0	335.8	335.3
40°	316.8	320.4	320.0	321.8	322.7
42.5°	300.5	305.5	306.9	309.1	309.1
45°	285.2	290.1	292.4	295.6	296.0
47.5°	269.4	273.9	277.5	282.0	282.9
50°	253.1	258.1	263.0	268.0	269.4
52.5°	235.9	242.2	248.6	254.0	254.9
55°	219.2	226.4	233.6	238.6	240.4
57.5°	202.0	210.6	218.7	224.2	225.5
60°	184.8	193.9	202.9	209.7	211.1
62.5°	168.1	177.2	187.1	194.8	196.6
65°	150.9	161.3	172.2	179.0	180.8
67.5°	135.1	145.1	155.9	164.1	166.3
70°	117.5	127.9	139.6	148.2	150.9
72.5°	100.3	111.2	124.3	133.8	135.6
75°	83.2	94.9	109.4	118.4	120.7
77.5°	66.4	80.0	93.5	103.5	105.3
80°	51.1	64.6	80.0	89.9	91.7
82.5°	37.1	51.5	67.3	76.8	80.4
85°	24.9	39.8	55.6	65.5	69.1
87.5°	15.8	30.3	45.6	56.0	59.2
90°	8.0	28.6	49.4	63.6	68.2
92.5°	17.8	82.3	341.3	126.9	105.2
95°	31.2	92.4	712.6	351.2	226.3
97.5°	44.5	97.2	765.2	597.6	438.8
100°	58.7	107.3	721.5	825.4	639.4
102.5°	74.3	119.4	646.9	1018.0	864.2
105°	90.8	132.5	581.0	1128.8	1053.4
107.5°	106.4	146.8	531.5	1158.8	1166.2
110°	123.6	162.0	498.3	1126.3	1216.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.3	177.1	478.1	1060.8	1208.1
115°	157.6	192.7	464.0	988.0	1160.6
117.5°	172.6	208.5	455.3	921.3	1090.6
120°	187.9	224.1	448.9	865.4	1022.3
122.5°	203.5	238.9	443.3	819.7	961.7
125°	216.6	253.0	438.4	783.1	911.9
127.5°	226.9	267.0	435.1	750.9	866.4
130°	236.9	280.8	432.1	718.8	829.6
132.5°	244.0	293.2	430.3	684.5	792.9
135°	252.5	303.0	428.5	651.2	752.7
137.5°	263.2	312.6	428.0	616.7	710.6
140°	272.0	320.8	427.4	585.0	666.6
142.5°	282.8	327.9	427.2	557.5	625.7
145°	293.5	335.5	426.5	533.4	588.6
147.5°	304.5	342.4	424.9	512.8	554.8
150°	314.5	348.6	422.6	496.3	528.2
152.5°	325.2	354.8	419.6	482.8	507.8
155°	334.4	359.8	415.7	469.8	490.1
157.5°	342.9	364.7	411.9	457.6	474.0
160°	351.3	368.6	408.1	445.2	457.9
162.5°	358.2	372.4	403.5	434.1	443.3
165°	365.1	375.1	398.8	423.0	429.5
167.5°	369.7	376.6	394.2	412.6	416.5
170°	374.3	378.5	390.4	402.7	405.0
172.5°	377.4	379.3	385.8	394.6	394.2
175°	379.7	379.7	382.7	387.3	385.8
177.5°	381.2	379.7	380.4	382.7	380.4
180°	380.4	380.4	380.4	380.4	380.4

(END OF REPORT)