

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: P1027966

Luminaire Tested: S125DIP-B375D850UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027966
REPORT IS A COMBINATION OF REPORTS P1002114 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

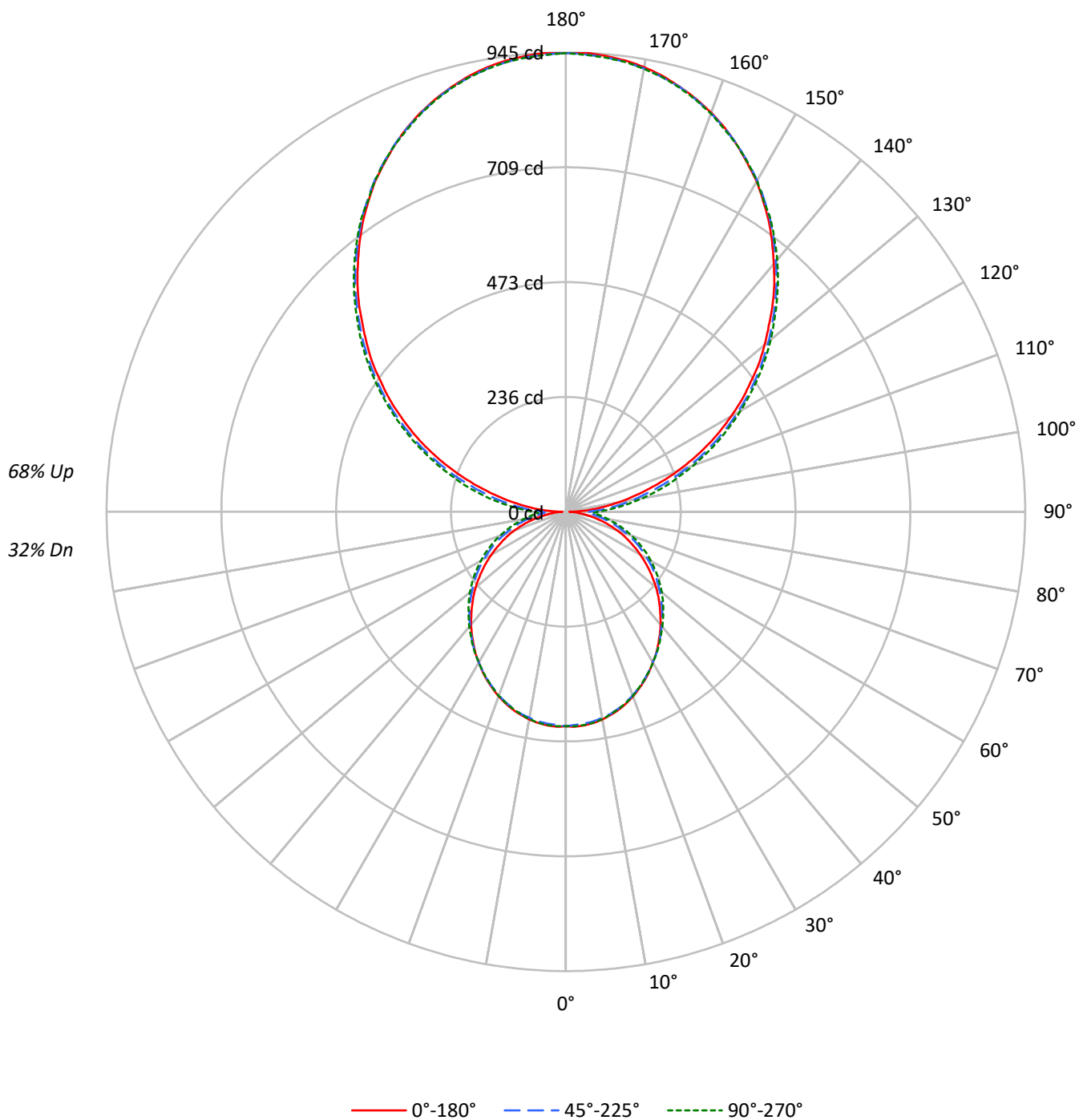
Lumens per Lamp: N/A
Luminaire Lumens: 4002.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
Input Current (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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40
1	93	89	85	81	84	80	77	74	63	61	59	48	47	45	34	33	33
2	85	77	71	66	76	70	64	60	55	52	48	42	40	38	30	28	27
3	77	68	60	55	69	61	55	50	49	44	40	37	34	31	26	24	23
4	70	60	52	46	63	54	47	42	43	38	34	33	29	27	23	21	19
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	13	12
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10
10	44	32	25	20	39	29	23	19	24	19	16	18	15	13	14	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2827	2827	2827
5°	2832	2768	2775
10°	2811	2712	2704
15°	2777	2646	2616
20°	2730	2566	2530
25°	2676	2482	2425
30°	2609	2390	2330
35°	2547	2305	2242
40°	2485	2216	2153
45°	2413	2138	2074
50°	2345	2054	2002
55°	2263	1974	1919
60°	2173	1882	1833
65°	2079	1786	1736
70°	1972	1657	1636
75°	1802	1530	1514
80°	1580	1375	1378
85°	1361	1251	1308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.0
10°-20°	118.5	3.0
20°-30°	176.3	4.4
30°-40°	208.8	5.2
40°-50°	215.8	5.4
50°-60°	198.8	5.0
60°-70°	160.7	4.0
70°-80°	107.6	2.7
80°-90°	57.1	1.4
90°-100°	94.1	2.4
100°-110°	209.5	5.2
110°-120°	331.6	8.3
120°-130°	424.9	10.6
130°-140°	470.2	11.7
140°-150°	457.9	11.4
150°-160°	384.0	9.6
160°-170°	255.2	6.4
170°-180°	89.3	2.2
0°-30°	336.6	8.4
0°-40°	545.3	13.6
0°-60°	960.0	24.0
0°-90°	1285.3	32.1
90°-120°	635.2	15.9
90°-150°	1988.2	49.7
90°-180°	2717.0	67.9
0°-180°	4002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	437	441	440	42
15°	421	422	419	421	420	119
25°	383	384	382	383	381	176
35°	331	334	333	334	334	207
45°	273	278	280	283	283	211
55°	210	217	224	228	230	188
65°	144	154	165	171	173	143
75°	80	91	105	113	116	84
85°	24	38	53	63	66	25
90°	8	27	47	61	66	8
95°	53	66	88	103	107	54
105°	171	182	199	212	218	183
115°	319	325	338	345	347	316
125°	464	468	477	482	484	415
135°	602	606	609	615	614	464
145°	728	731	733	735	735	455
155°	833	833	834	836	833	384
165°	905	904	905	908	903	255
175°	941	938	938	943	938	89
180°	944	944	944	944	944	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	442.6	441.7	438.7	441.7	441.3
5°	441.3	440.4	437.4	440.8	440.4
7.5°	438.2	437.8	434.8	437.8	437.4
10°	433.9	433.9	430.5	433.5	433.1
12.5°	427.9	428.3	425.7	427.9	426.6
15°	421.4	421.8	418.8	421.4	419.6
17.5°	413.2	414.0	411.0	413.2	411.9
20°	404.1	404.9	401.9	403.2	403.2
22.5°	393.7	395.4	392.0	393.7	392.4
25°	382.9	384.2	381.6	383.3	381.1
27.5°	371.2	372.9	369.9	371.2	370.3
30°	357.8	360.4	357.8	358.6	358.2
32.5°	345.7	347.8	346.1	347.0	346.5
35°	331.4	334.4	333.1	334.4	334.4
37.5°	317.5	320.1	319.7	321.4	321.0
40°	303.3	306.7	306.3	308.0	308.9
42.5°	287.7	292.5	293.8	295.9	295.9
45°	273.0	277.7	279.9	282.9	283.4
47.5°	257.8	262.2	265.6	270.0	270.8
50°	242.3	247.0	251.8	256.5	257.8
52.5°	225.8	231.9	237.9	243.1	244.0
55°	209.8	216.7	223.7	228.4	230.2
57.5°	193.4	201.6	209.4	214.6	215.9
60°	176.9	185.6	194.2	200.7	202.0
62.5°	160.9	169.6	179.1	186.5	188.2
65°	144.5	154.4	164.8	171.3	173.0
67.5°	129.4	138.9	149.3	157.0	159.2
70°	112.5	122.4	133.7	141.9	144.5
72.5°	96.0	106.4	119.0	128.1	129.8
75°	79.6	90.9	104.7	113.3	115.5
77.5°	63.6	76.6	89.6	99.1	100.8
80°	48.9	61.9	76.6	86.1	87.8
82.5°	35.5	49.3	64.5	73.5	77.0
85°	23.8	38.1	53.2	62.7	66.2
87.5°	15.1	29.0	43.7	53.6	56.7
90°	7.6	27.4	47.2	60.8	66.1
92.5°	28.1	44.3	66.0	80.8	85.2
95°	53.3	66.1	88.1	102.8	107.3
97.5°	78.6	89.8	114.3	127.8	131.6
100°	107.6	116.6	140.1	155.8	159.8
102.5°	138.7	150.6	167.7	183.7	188.5
105°	171.3	181.9	199.3	212.3	217.6
107.5°	206.9	216.6	232.9	243.7	246.3
110°	243.9	252.7	267.0	277.5	279.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.0	287.4	302.0	310.6	312.1
115°	319.1	325.0	337.8	344.9	346.7
117.5°	356.9	359.7	372.0	380.1	380.2
120°	392.1	397.1	407.7	415.1	414.8
122.5°	429.8	431.0	442.7	448.9	449.3
125°	463.6	467.6	477.0	482.5	483.8
127.5°	500.6	502.4	510.5	516.2	517.4
130°	533.7	537.0	544.4	549.8	550.4
132.5°	566.3	572.9	576.5	581.8	581.4
135°	601.6	605.5	609.3	614.9	614.1
137.5°	634.6	638.5	641.8	647.7	645.8
140°	665.7	669.4	672.1	678.2	676.4
142.5°	697.3	699.8	702.7	707.4	705.4
145°	728.1	730.7	732.9	735.1	734.6
147.5°	756.4	758.6	760.0	763.1	758.1
150°	785.0	784.3	787.2	787.2	786.1
152.5°	808.5	810.0	810.7	812.9	810.0
155°	832.7	832.7	833.5	836.4	832.7
157.5°	854.8	853.3	854.0	857.0	851.8
160°	873.8	871.6	872.4	875.3	871.6
162.5°	890.7	889.3	889.3	892.9	888.5
165°	905.4	904.0	904.7	907.6	903.2
167.5°	918.6	915.7	915.7	920.1	915.7
170°	928.9	926.0	926.0	930.4	925.2
172.5°	936.3	933.3	933.3	937.7	933.3
175°	941.4	938.5	938.5	942.9	937.7
177.5°	945.1	942.1	941.4	945.8	940.7
180°	943.6	943.6	943.6	943.6	943.6

(END OF REPORT)