

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: P1027959

Luminaire Tested: S125DIP-B375D850UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027959
REPORT IS A COMBINATION OF REPORTS P1002105 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

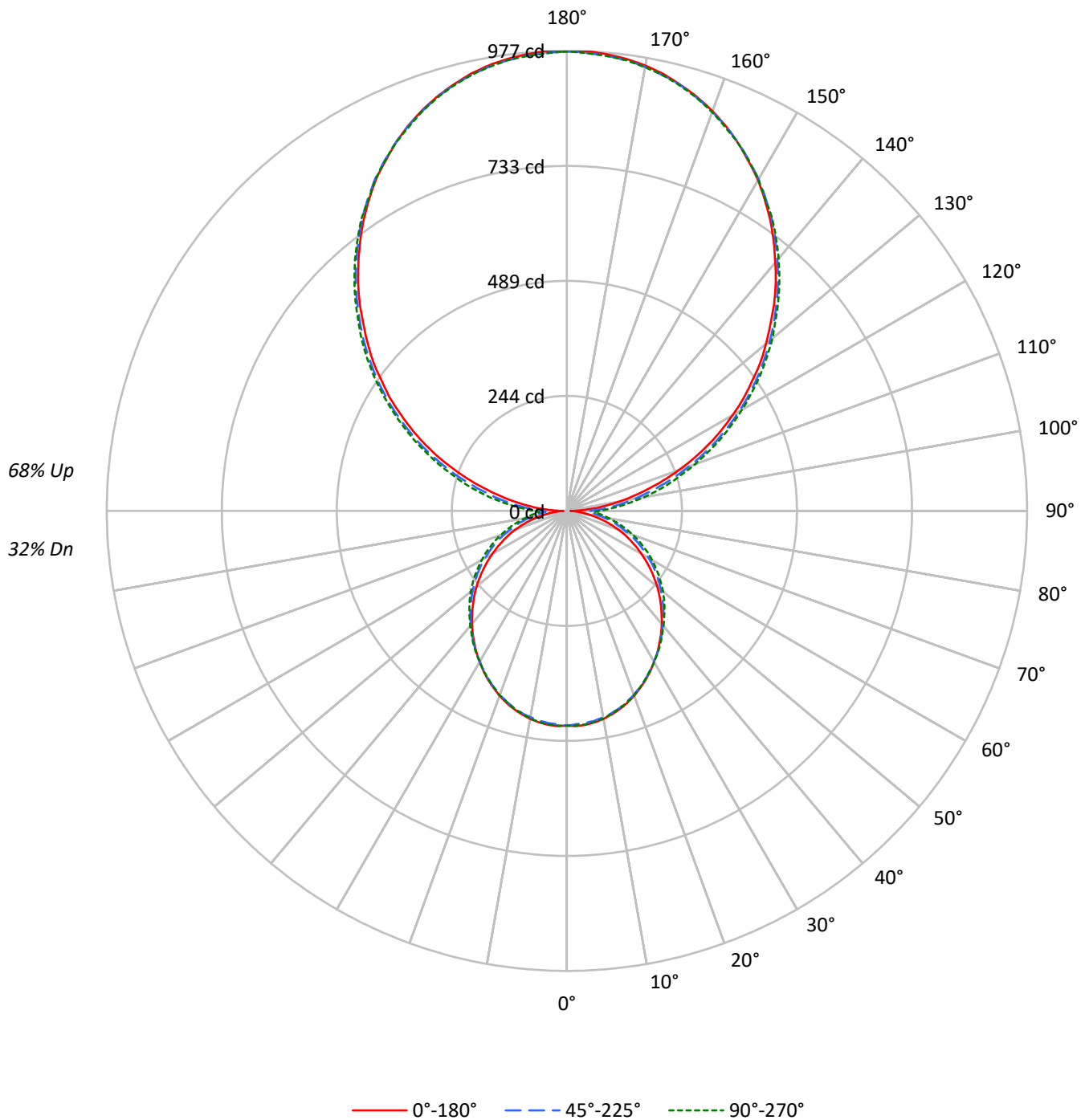
Lumens per Lamp: N/A
Luminaire Lumens: 4138.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1027959

CATALOG NUMBER: S125DIP-B375D850UB40-4F0-XX-W2A-D1

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	37	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°	2922	2922	2922
5°	2927	2861	2868
10°	2905	2803	2795
15°	2870	2735	2705
20°	2822	2653	2615
25°	2766	2566	2507
30°	2697	2471	2408
35°	2633	2383	2318
40°	2568	2290	2226
45°	2495	2210	2144
50°	2424	2124	2069
55°	2339	2040	1983
60°	2246	1946	1894
65°	2150	1847	1795
70°	2039	1713	1692
75°	1863	1581	1565
80°	1632	1422	1425
85°	1407	1293	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2495 cd/sqm

TEST NUMBER: P1027959

CATALOG NUMBER: S125DIP-B375D850UB40-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.0
10°-20°	122.5	3.0
20°-30°	182.2	4.4
30°-40°	215.8	5.2
40°-50°	223.1	5.4
50°-60°	205.5	5.0
60°-70°	166.1	4.0
70°-80°	111.2	2.7
80°-90°	59.0	1.4
90°-100°	97.2	2.4
100°-110°	216.6	5.2
110°-120°	342.9	8.3
120°-130°	439.4	10.6
130°-140°	486.3	11.8
140°-150°	473.5	11.4
150°-160°	397.1	9.6
160°-170°	264.0	6.4
170°-180°	92.4	2.2
0°-30°	347.9	8.4
0°-40°	563.7	13.6
0°-60°	992.3	24.0
0°-90°	1328.6	32.1
90°-120°	656.8	15.9
90°-150°	2056.0	49.7
90°-180°	2809.0	67.9
0°-180°	4138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	455	452	456	455	43
15°	436	436	433	436	434	123
25°	396	397	394	396	394	182
35°	342	346	344	346	346	214
45°	282	287	289	292	293	218
55°	217	224	231	236	238	194
65°	149	160	170	177	179	148
75°	82	94	108	117	119	87
85°	25	39	55	65	68	26
90°	8	28	49	63	68	8
95°	55	68	91	106	111	56
105°	177	188	206	220	225	189
115°	330	336	349	357	358	326
125°	480	484	493	499	500	429
135°	622	626	630	636	635	479
145°	753	756	758	760	760	471
155°	861	861	862	865	861	397
165°	936	935	936	939	934	264
175°	974	970	970	975	970	93
180°	976	976	976	976	976	

TEST NUMBER: P1027959

CATALOG NUMBER: S125DIP-B375D850UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	456.1	456.1	456.1	456.1	456.1
2.5°	457.5	456.6	453.4	456.6	456.1
5°	456.1	455.2	452.1	455.7	455.2
7.5°	453.0	452.5	449.4	452.5	452.1
10°	448.5	448.5	444.9	448.1	447.6
12.5°	442.3	442.7	440.0	442.3	440.9
15°	435.6	436.0	432.9	435.6	433.8
17.5°	427.1	428.0	424.8	427.1	425.7
20°	417.7	418.6	415.4	416.8	416.8
22.5°	406.9	408.7	405.1	406.9	405.6
25°	395.8	397.1	394.4	396.2	394.0
27.5°	383.7	385.5	382.3	383.7	382.8
30°	369.8	372.5	369.8	370.7	370.3
32.5°	357.3	359.5	357.7	358.6	358.2
35°	342.5	345.7	344.3	345.7	345.7
37.5°	328.2	330.9	330.5	332.3	331.8
40°	313.5	317.1	316.6	318.4	319.3
42.5°	297.4	302.3	303.6	305.9	305.9
45°	282.2	287.1	289.3	292.5	292.9
47.5°	266.5	271.0	274.6	279.0	279.9
50°	250.4	255.3	260.3	265.2	266.5
52.5°	233.4	239.7	246.0	251.3	252.2
55°	216.9	224.0	231.2	236.1	237.9
57.5°	199.9	208.4	216.4	221.8	223.1
60°	182.9	191.8	200.8	207.5	208.8
62.5°	166.4	175.3	185.1	192.7	194.5
65°	149.4	159.6	170.4	177.1	178.9
67.5°	133.7	143.5	154.3	162.3	164.6
70°	116.3	126.6	138.2	146.7	149.4
72.5°	99.3	110.0	123.0	132.4	134.2
75°	82.3	93.9	108.2	117.2	119.4
77.5°	65.7	79.2	92.6	102.4	104.2
80°	50.5	63.9	79.2	89.0	90.8
82.5°	36.7	51.0	66.6	76.0	79.6
85°	24.6	39.4	55.0	64.8	68.4
87.5°	15.7	30.0	45.2	55.5	58.6
90°	8.0	28.3	48.9	62.9	68.3
92.5°	29.1	45.8	68.3	83.4	88.0
95°	55.2	68.3	91.1	106.3	110.9
97.5°	81.3	92.8	118.2	132.1	136.0
100°	111.2	120.6	144.8	161.0	165.2
102.5°	143.5	155.8	173.4	190.0	194.9
105°	177.1	188.1	206.1	219.6	225.0
107.5°	214.0	224.0	240.7	251.9	254.6
110°	252.2	261.4	276.2	286.9	289.3

TEST NUMBER: P1027959

CATALOG NUMBER: S125DIP-B375D850UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	297.3	312.3	321.2	322.8
115°	330.0	336.1	349.3	356.6	358.5
117.5°	369.0	372.1	384.8	393.1	393.2
120°	405.4	410.6	421.7	429.3	428.9
122.5°	444.5	445.7	457.9	464.2	464.6
125°	479.5	483.5	493.3	498.9	500.4
127.5°	517.7	519.6	527.9	533.9	535.1
130°	551.9	555.3	563.1	568.5	569.3
132.5°	585.6	592.5	596.2	601.7	601.2
135°	622.1	626.2	630.1	635.9	635.1
137.5°	656.3	660.3	663.6	669.8	667.8
140°	688.4	692.2	695.0	701.4	699.4
142.5°	721.1	723.7	726.8	731.5	729.5
145°	753.0	755.6	757.9	760.1	759.6
147.5°	782.2	784.5	786.0	789.2	784.0
150°	811.8	811.0	814.1	814.1	813.0
152.5°	836.1	837.6	838.4	840.7	837.6
155°	861.2	861.2	861.9	865.0	861.2
157.5°	883.9	882.4	883.2	886.2	880.9
160°	903.7	901.4	902.2	905.2	901.4
162.5°	921.2	919.6	919.6	923.4	918.9
165°	936.3	934.8	935.6	938.6	934.1
167.5°	950.0	947.0	947.0	951.5	947.0
170°	960.6	957.6	957.6	962.2	956.9
172.5°	968.2	965.2	965.2	969.8	965.2
175°	973.6	970.5	970.5	975.1	969.8
177.5°	977.4	974.3	973.6	978.1	972.8
180°	975.8	975.8	975.8	975.8	975.8

(END OF REPORT)