

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: P1027933

Luminaire Tested: S125DIP-B375D850UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027933
REPORT IS A COMBINATION OF REPORTS P1002064 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

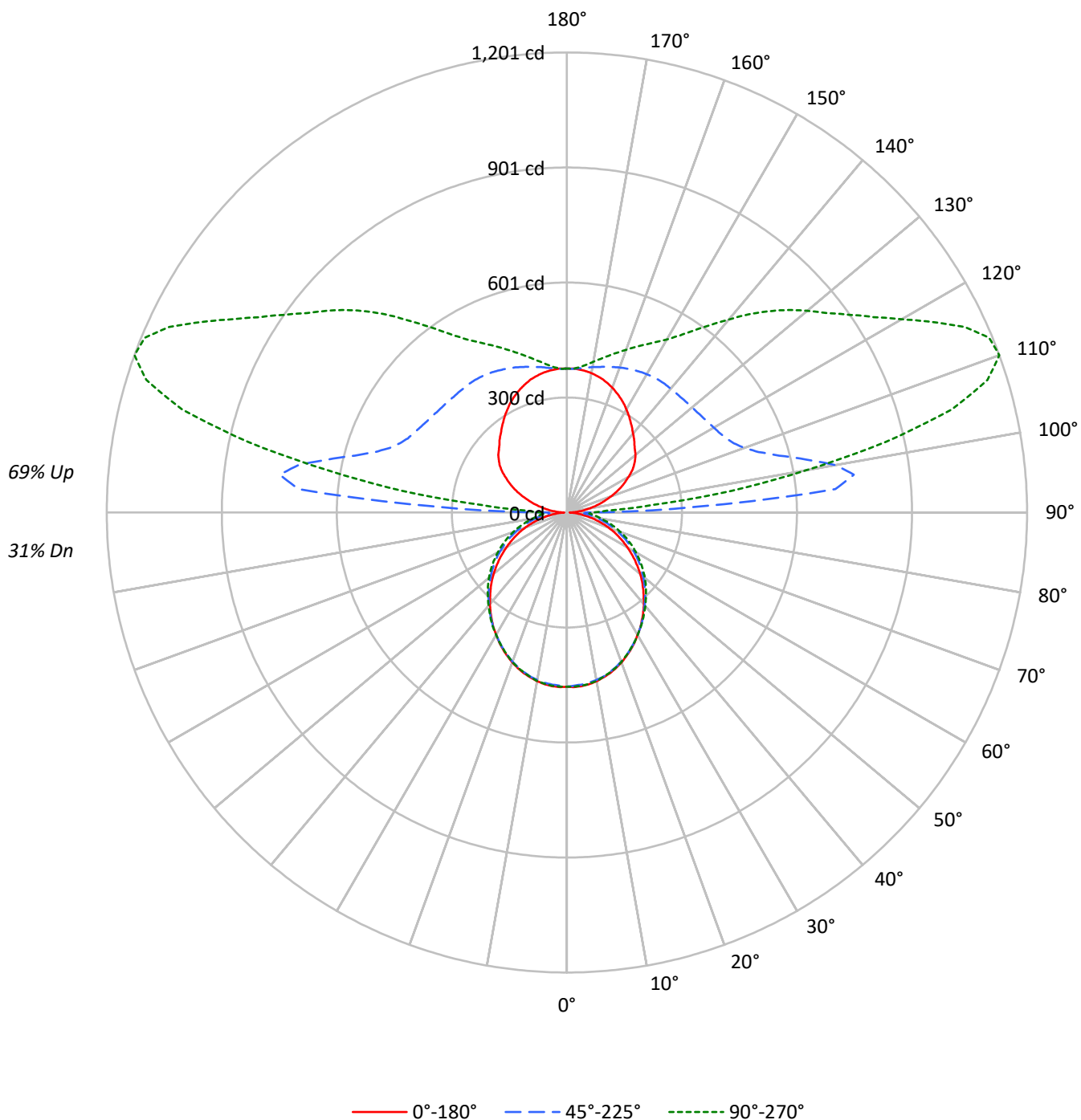
Lumens per Lamp: N/A
Luminaire Lumens: 4236.8 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1027933

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1027933

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-D4

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°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2488 cd/sqm

TEST NUMBER: P1027933

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.0
10°-20°	122.2	2.9
20°-30°	181.7	4.3
30°-40°	215.2	5.1
40°-50°	222.5	5.3
50°-60°	204.9	4.8
60°-70°	165.7	3.9
70°-80°	110.8	2.6
80°-90°	58.8	1.4
90°-100°	315.1	7.4
100°-110°	611.2	14.4
110°-120°	564.6	13.3
120°-130°	452.9	10.7
130°-140°	360.6	8.5
140°-150°	270.0	6.4
150°-160°	189.6	4.5
160°-170°	111.7	2.6
170°-180°	36.3	0.9
0°-30°	346.9	8.2
0°-40°	562.1	13.3
0°-60°	989.5	23.4
0°-90°	1324.7	31.3
90°-120°	1490.8	35.2
90°-150°	2574.4	60.8
90°-180°	2912.0	68.7
0°-180°	4236.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	28	49	63	67	7
95°	31	91	703	347	223	31
105°	90	131	573	1114	1040	94
115°	156	190	458	975	1146	153
125°	214	250	433	773	900	190
135°	249	299	423	643	743	193
145°	290	331	421	526	581	181
155°	330	355	410	464	484	152
165°	360	370	394	418	424	102
175°	375	375	378	382	381	36
180°	376	376	376	376	376	

TEST NUMBER: P1027933

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	7.9	28.2	48.7	62.7	67.3
92.5°	17.6	81.3	336.9	125.2	103.7
95°	30.8	91.2	703.4	346.8	223.4
97.5°	44.0	96.0	755.3	589.8	433.2
100°	57.9	106.0	712.2	814.6	631.1
102.5°	73.4	117.8	638.5	1004.8	852.9
105°	89.6	130.7	573.4	1114.2	1039.7
107.5°	105.1	145.0	524.7	1143.9	1151.0
110°	122.0	160.0	491.9	1111.6	1200.8

TEST NUMBER: P1027933

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.4	174.8	471.9	1047.0	1192.4
115°	155.6	190.2	458.0	975.2	1145.6
117.5°	170.3	205.9	449.4	909.4	1076.4
120°	185.4	221.2	443.1	854.2	1009.1
122.5°	200.9	235.8	437.5	809.2	949.2
125°	213.8	249.6	432.8	772.9	900.1
127.5°	223.9	263.6	429.4	741.2	855.1
130°	233.7	277.2	426.5	709.6	818.9
132.5°	240.9	289.4	424.8	675.6	782.6
135°	249.2	299.1	423.0	642.7	743.0
137.5°	259.8	308.5	422.4	608.8	701.4
140°	268.4	316.5	421.8	577.4	657.9
142.5°	279.0	323.6	421.7	550.2	617.5
145°	289.6	331.2	420.9	526.5	580.9
147.5°	300.6	338.0	419.4	506.2	547.7
150°	310.4	344.1	417.2	489.8	521.3
152.5°	321.0	350.2	414.1	476.6	501.2
155°	330.1	355.1	410.3	463.8	483.8
157.5°	338.4	360.0	406.6	451.6	467.9
160°	346.7	363.8	402.8	439.4	452.0
162.5°	353.6	367.5	398.2	428.5	437.6
165°	360.4	370.2	393.7	417.5	424.0
167.5°	364.9	371.7	389.1	407.3	411.1
170°	369.5	373.6	385.4	397.4	399.7
172.5°	372.5	374.4	380.8	389.5	389.1
175°	374.8	374.8	377.8	382.3	380.8
177.5°	376.3	374.8	375.5	377.8	375.5
180°	375.5	375.5	375.5	375.5	375.5

(END OF REPORT)