

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: P1027941

Luminaire Tested: S125DIP-B375D850UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027941
REPORT IS A COMBINATION OF REPORTS P1002087 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

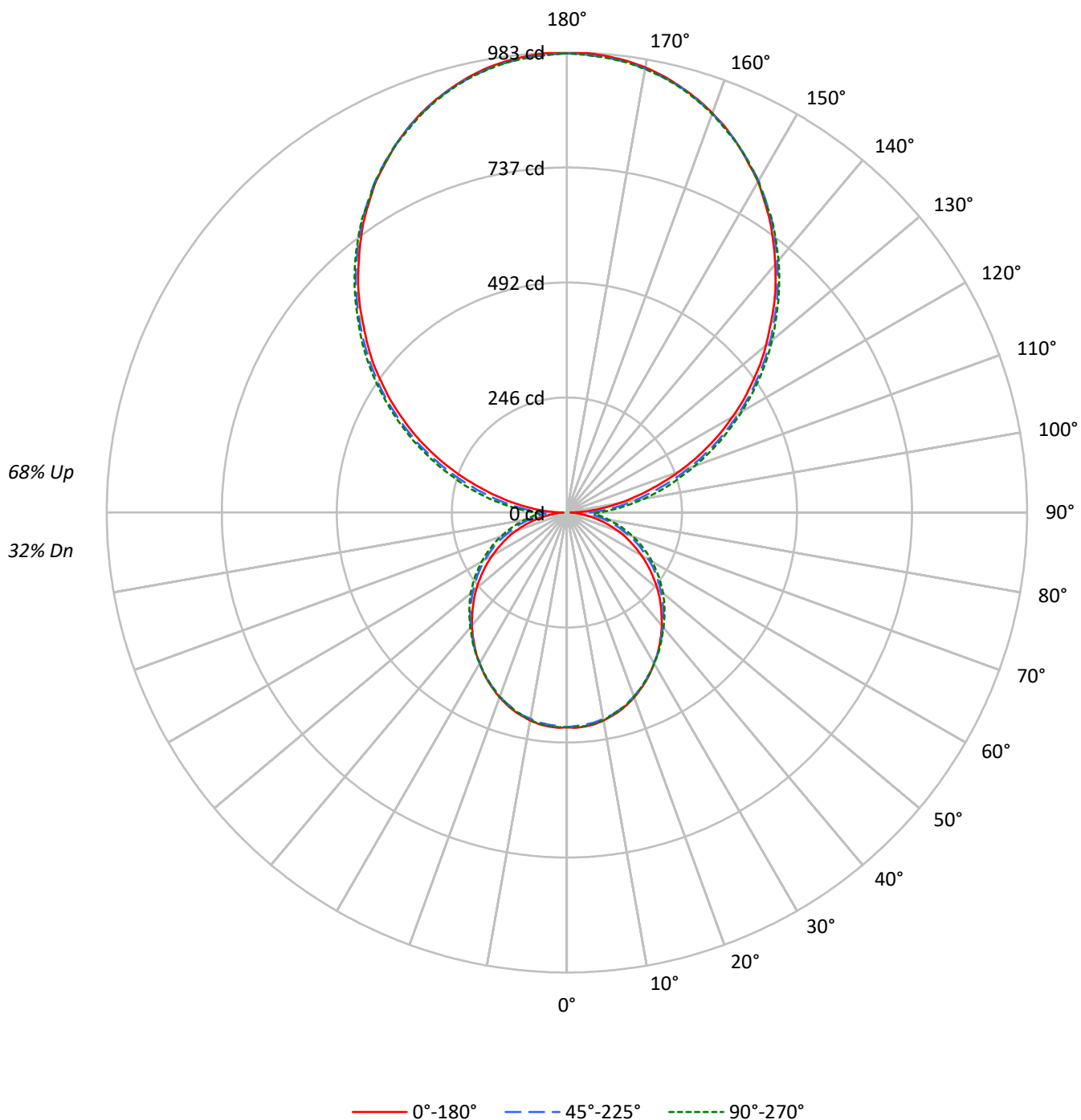
Lumens per Lamp: N/A
Luminaire Lumens: 4162.2 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1027941

CATALOG NUMBER: S125DIP-B375D850UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1027941

CATALOG NUMBER: S125DIP-B375D850UB30-4F0-XX-W2A-D1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	40	40	32
1	93	89	85	81	84	80	77	74	63	61	59	48	47	45	34	33	33	33	33	26
2	85	77	71	66	76	70	64	60	55	52	48	42	40	38	30	28	27	27	27	21
3	77	68	60	55	69	61	55	50	49	44	41	37	34	31	26	24	23	23	23	18
4	70	60	52	46	63	54	47	42	43	38	34	33	29	27	23	21	19	19	19	15
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17	17	17	13
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	17	15	15	15	12
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13	13	13	10
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	13	12	12	12	9
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10	10	10	8
10	44	32	25	20	39	29	23	19	24	19	16	18	15	13	14	11	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2511 cd/sqm

TEST NUMBER: P1027941

CATALOG NUMBER: S125DIP-B375D850UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.0
10°-20°	123.3	3.0
20°-30°	183.4	4.4
30°-40°	217.2	5.2
40°-50°	224.5	5.4
50°-60°	206.8	5.0
60°-70°	167.2	4.0
70°-80°	111.9	2.7
80°-90°	59.4	1.4
90°-100°	97.8	2.4
100°-110°	217.9	5.2
110°-120°	344.9	8.3
120°-130°	441.9	10.6
130°-140°	489.0	11.7
140°-150°	476.1	11.4
150°-160°	399.3	9.6
160°-170°	265.4	6.4
170°-180°	92.9	2.2
0°-30°	350.1	8.4
0°-40°	567.3	13.6
0°-60°	998.6	24.0
0°-90°	1337.1	32.1
90°-120°	660.6	15.9
90°-150°	2067.6	49.7
90°-180°	2825.0	67.9
0°-180°	4162.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	28	49	63	69	8
95°	56	69	92	107	112	57
105°	178	189	207	221	226	190
115°	332	338	351	359	361	328
125°	482	486	496	502	503	432
135°	626	630	634	640	639	482
145°	757	760	762	764	764	473
155°	866	866	867	870	866	399
165°	942	940	941	944	939	266
175°	979	976	976	980	975	93
180°	981	981	981	981	981	

TEST NUMBER: P1027941

CATALOG NUMBER: S125DIP-B375D850UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	8.0	28.5	49.1	63.3	68.7
92.5°	29.2	46.1	68.7	83.9	88.7
95°	55.5	68.8	91.7	106.9	111.6
97.5°	81.8	93.3	118.9	132.9	136.9
100°	111.9	121.3	145.6	162.0	166.2
102.5°	144.2	156.7	174.4	191.0	196.0
105°	178.2	189.2	207.3	220.9	226.3
107.5°	215.1	225.2	242.1	253.4	256.1
110°	253.7	262.9	277.8	288.6	291.0

TEST NUMBER: P1027941

CATALOG NUMBER: S125DIP-B375D850UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.4	298.9	314.1	323.0	324.6
115°	331.8	338.1	351.3	358.6	360.6
117.5°	371.1	374.1	386.9	395.3	395.4
120°	407.8	412.9	424.0	431.6	431.3
122.5°	447.0	448.2	460.4	466.9	467.3
125°	482.1	486.3	496.0	501.7	503.1
127.5°	520.6	522.4	530.9	536.8	538.0
130°	555.0	558.3	566.1	571.7	572.5
132.5°	588.9	595.7	599.5	605.0	604.5
135°	625.5	629.7	633.6	639.5	638.6
137.5°	659.9	664.1	667.4	673.5	671.5
140°	692.3	696.1	698.8	705.3	703.3
142.5°	725.1	727.7	730.8	735.6	733.6
145°	757.2	759.8	762.1	764.4	763.9
147.5°	786.5	788.8	790.3	793.5	788.3
150°	816.3	815.5	818.6	818.6	817.5
152.5°	840.7	842.2	843.0	845.3	842.2
155°	865.9	865.9	866.7	869.7	865.9
157.5°	888.8	887.3	888.1	891.1	885.8
160°	908.7	906.4	907.1	910.2	906.4
162.5°	926.2	924.7	924.7	928.5	923.9
165°	941.5	940.0	940.7	943.8	939.2
167.5°	955.2	952.2	952.2	956.8	952.2
170°	965.9	962.9	962.9	967.5	962.1
172.5°	973.6	970.5	970.5	975.1	970.5
175°	978.9	975.9	975.9	980.4	975.1
177.5°	982.7	979.7	978.9	983.5	978.2
180°	981.2	981.2	981.2	981.2	981.2

(END OF REPORT)