

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: P1027745

Luminaire Tested: S125DIP-B1270D850UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027745
REPORT IS A COMBINATION OF REPORTS P1001815 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB50-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

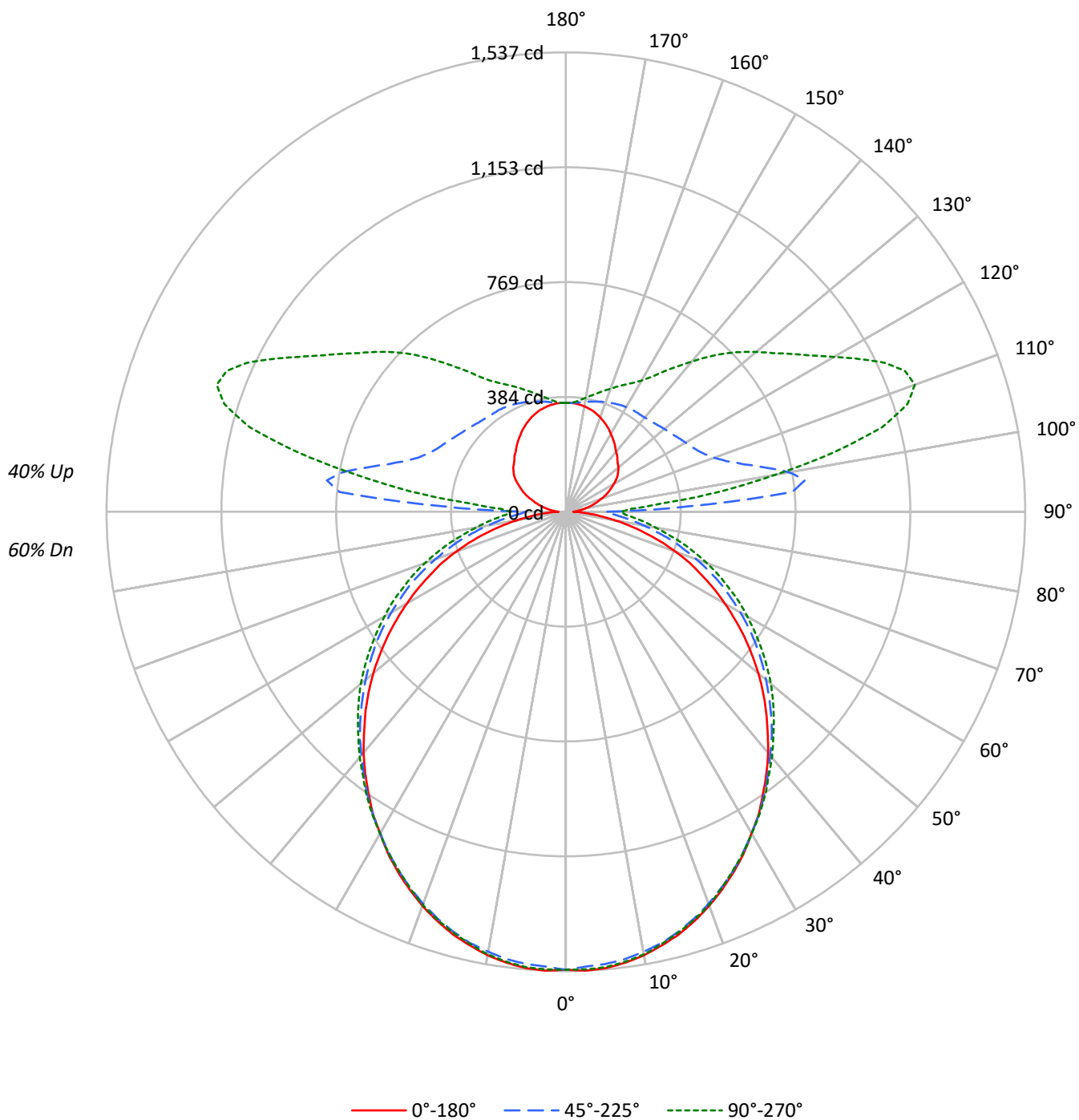
Lumens per Lamp: N/A
Luminaire Lumens: 7489.6 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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: P1027745

CATALOG NUMBER: S125DIP-B1270D850UB50-4F0-XX-W2A-D4

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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65
1	99	94	90	86	92	88	84	81	76	74	71	66	64	62	56	54	53
2	90	82	75	70	83	77	71	66	67	62	58	57	54	51	49	46	44
3	82	72	64	58	76	67	60	55	58	53	49	50	46	43	43	40	37
4	75	63	55	49	69	59	52	46	52	46	41	45	40	36	38	35	32
5	69	56	48	42	64	53	45	39	46	40	35	40	35	31	34	31	28
6	63	50	42	36	59	47	40	34	42	35	31	36	31	27	31	27	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	28	24	21
8	54	41	33	28	50	39	32	27	34	28	24	30	25	22	26	22	19
9	50	38	30	25	47	36	29	24	32	26	22	28	23	19	24	20	17
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9818	9818	9818
5°	9834	9612	9636
10°	9760	9416	9389
15°	9642	9188	9086
20°	9481	8913	8786
25°	9291	8619	8421
30°	9061	8300	8091
35°	8846	8005	7785
40°	8627	7695	7478
45°	8380	7426	7201
50°	8143	7133	6952
55°	7858	6855	6662
60°	7546	6537	6365
65°	7220	6203	6031
70°	6847	5755	5683
75°	6258	5313	5258
80°	5487	4774	4788
85°	4723	4345	4541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8380 cd/sqm

TEST NUMBER: P1027745

CATALOG NUMBER: S125DIP-B1270D850UB50-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.9
10°-20°	411.6	5.5
20°-30°	612.1	8.2
30°-40°	724.9	9.7
40°-50°	749.5	10.0
50°-60°	690.4	9.2
60°-70°	558.1	7.5
70°-80°	373.4	5.0
80°-90°	194.5	2.6
90°-100°	383.0	5.1
100°-110°	649.9	8.7
110°-120°	585.7	7.8
120°-130°	460.9	6.2
130°-140°	359.2	4.8
140°-150°	263.8	3.5
150°-160°	183.9	2.5
160°-170°	108.4	1.4
170°-180°	35.2	0.5
0°-30°	1168.8	15.6
0°-40°	1893.7	25.3
0°-60°	3333.6	44.5
0°-90°	4459.6	59.5
90°-120°	1618.6	21.6
90°-150°	2702.5	36.1
90°-180°	3030.0	40.5
0°-180°	7489.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1529	1519	1531	1529	145
15°	1463	1465	1454	1463	1457	412
25°	1330	1334	1325	1331	1324	612
35°	1151	1161	1157	1161	1161	720
45°	948	964	972	982	984	731
55°	729	753	777	793	799	651
65°	502	536	572	595	601	498
75°	276	316	364	394	401	293
85°	83	132	185	218	230	86
90°	25	79	135	173	185	18
95°	44	130	760	438	326	41
105°	96	154	615	1161	1096	102
115°	157	198	486	1007	1178	155
125°	212	245	444	791	920	188
135°	244	291	419	646	748	189
145°	282	321	408	516	573	176
155°	320	344	398	450	469	147
165°	350	359	382	405	411	98
175°	364	364	366	371	369	35
180°	364	364	364	364	364	

TEST NUMBER: P1027745

CATALOG NUMBER: S125DIP-B1270D850UB50-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1536.9	1533.9	1523.4	1533.9	1532.4
5°	1532.4	1529.4	1518.8	1530.9	1529.4
7.5°	1521.8	1520.3	1509.8	1520.3	1518.8
10°	1506.8	1506.8	1494.8	1505.3	1503.8
12.5°	1485.8	1487.3	1478.3	1485.8	1481.3
15°	1463.3	1464.8	1454.2	1463.3	1457.2
17.5°	1434.7	1437.7	1427.2	1434.7	1430.2
20°	1403.2	1406.2	1395.7	1400.2	1400.2
22.5°	1367.1	1373.1	1361.1	1367.1	1362.6
25°	1329.6	1334.1	1325.0	1331.1	1323.5
27.5°	1289.0	1295.0	1284.5	1289.0	1286.0
30°	1242.4	1251.4	1242.4	1245.4	1243.9
32.5°	1200.4	1207.9	1201.9	1204.9	1203.4
35°	1150.8	1161.3	1156.8	1161.3	1161.3
37.5°	1102.7	1111.7	1110.2	1116.2	1114.7
40°	1053.1	1065.1	1063.6	1069.7	1072.7
42.5°	999.0	1015.6	1020.1	1027.6	1027.6
45°	948.0	964.5	972.0	982.5	984.0
47.5°	895.4	910.4	922.4	937.4	940.5
50°	841.3	857.8	874.3	890.9	895.4
52.5°	784.2	805.2	826.3	844.3	847.3
55°	728.6	752.7	776.7	793.2	799.2
57.5°	671.5	700.1	727.1	745.2	749.7
60°	614.4	644.5	674.5	697.1	701.6
62.5°	558.9	588.9	622.0	647.5	653.5
65°	501.8	536.3	572.4	594.9	600.9
67.5°	449.2	482.2	518.3	545.3	552.9
70°	390.6	425.2	464.2	492.8	501.8
72.5°	333.5	369.6	413.1	444.7	450.7
75°	276.4	315.5	363.6	393.6	401.1
77.5°	220.8	265.9	311.0	344.0	350.0
80°	169.8	214.8	265.9	299.0	305.0
82.5°	123.2	171.3	223.8	255.4	267.4
85°	82.6	132.2	184.8	217.8	229.9
87.5°	52.6	100.7	151.7	186.3	196.8
90°	24.7	78.7	134.9	173.1	185.2
92.5°	32.0	124.8	410.2	228.4	215.0
95°	43.7	130.2	760.3	437.8	325.8
97.5°	55.4	131.6	806.4	668.3	523.9
100°	67.9	137.0	759.2	881.1	709.4
102.5°	81.8	145.3	683.4	1060.1	919.3
105°	96.5	153.6	615.0	1160.9	1096.1
107.5°	110.4	164.2	563.4	1185.4	1198.8
110°	125.8	175.4	527.3	1148.9	1242.7



TEST NUMBER: P1027745

CATALOG NUMBER: S125DIP-B1270D850UB50-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.7	186.6	503.7	1080.7	1229.3
115°	157.3	198.3	486.0	1006.8	1178.4
117.5°	170.5	210.3	473.3	937.6	1107.1
120°	185.2	223.1	462.9	879.8	1036.4
122.5°	199.1	234.0	453.3	830.8	973.1
125°	211.6	245.4	444.3	791.4	920.1
127.5°	220.4	257.8	436.8	755.3	872.2
130°	229.9	271.0	430.8	720.2	831.7
132.5°	235.8	282.8	424.8	683.1	791.1
135°	243.8	291.2	418.8	645.8	748.4
137.5°	254.1	300.4	415.0	608.6	702.6
140°	261.4	308.1	411.3	573.9	656.3
142.5°	271.7	313.9	409.0	543.2	612.8
145°	282.0	321.2	408.3	516.0	573.0
147.5°	291.5	327.8	406.8	493.1	535.4
150°	301.1	333.8	404.6	475.1	506.7
152.5°	311.3	339.6	401.7	462.2	486.1
155°	320.1	344.4	398.0	449.8	469.2
157.5°	328.2	349.2	394.3	438.0	453.8
160°	336.3	352.8	390.6	426.2	438.4
162.5°	342.9	356.5	386.2	415.6	424.4
165°	349.5	359.1	381.8	405.0	411.2
167.5°	353.9	360.6	377.4	395.0	398.7
170°	358.3	362.4	373.8	385.5	387.7
172.5°	361.3	363.1	369.3	377.8	377.4
175°	363.5	363.5	366.4	370.8	369.3
177.5°	364.9	363.5	364.2	366.4	364.2
180°	364.2	364.2	364.2	364.2	364.2

(END OF REPORT)