

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: P1028245

Luminaire Tested: S125DIP-B850D1270UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028245
REPORT IS A COMBINATION OF REPORTS P1002487 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB27-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

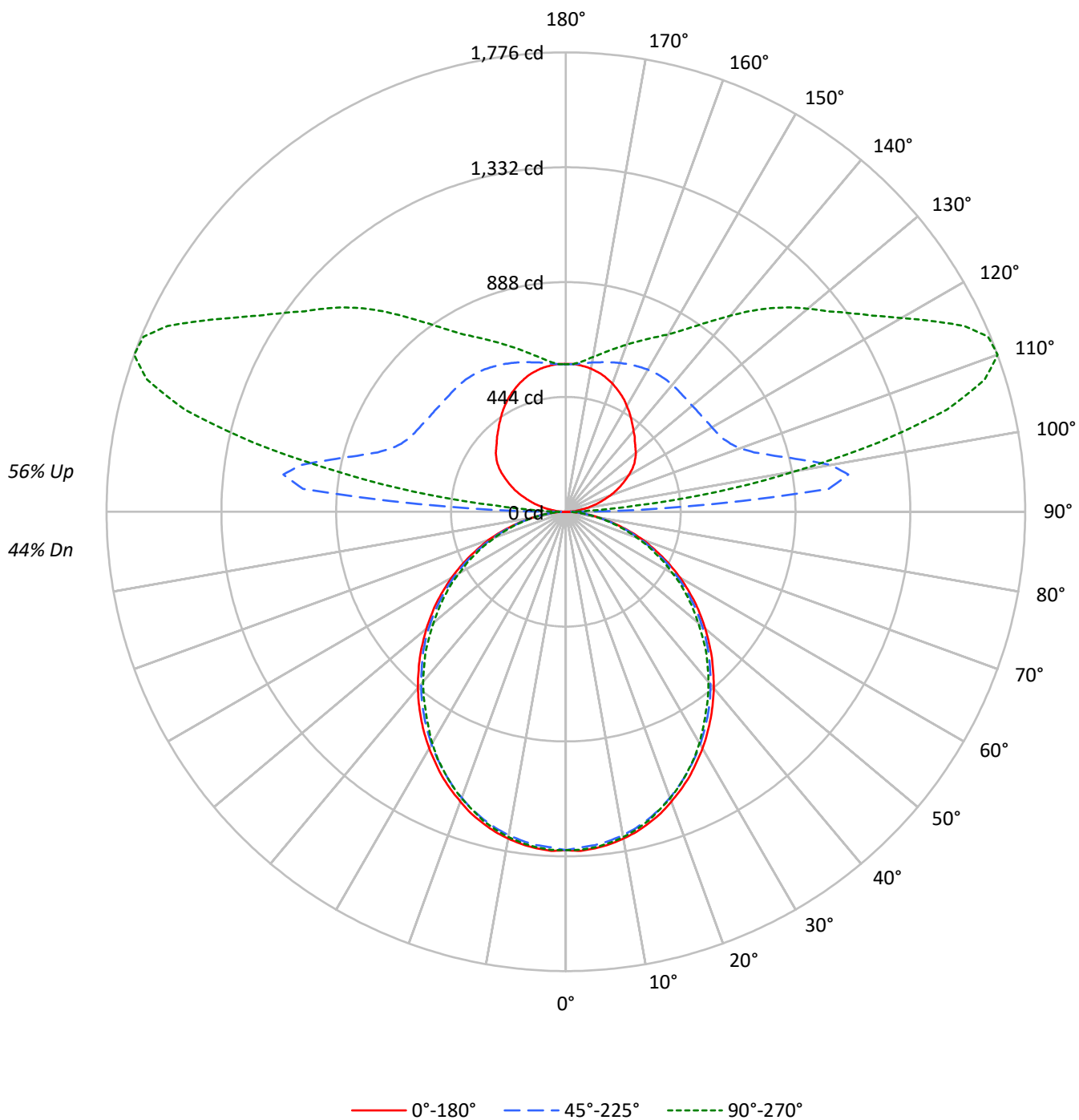
Lumens per Lamp: N/A
Luminaire Lumens: 7704.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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: P1028245

CATALOG NUMBER: S125DIP-B850D1270UB27-4F0-XX-W2A-F4

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36
3	80	71	63	58	73	65	59	53	54	49	46	44	41	38	35	33	31
4	73	62	55	49	67	57	51	45	48	43	39	39	36	32	31	29	26
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20
7	57	45	37	32	52	42	34	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8382	8382	8382
5°	8383	8187	8203
10°	8313	7999	7975
15°	8204	7775	7706
20°	8056	7515	7397
25°	7898	7231	7066
30°	7707	6935	6718
35°	7503	6625	6328
40°	7292	6297	5981
45°	7063	5978	5613
50°	6812	5616	5184
55°	6564	5216	4788
60°	6268	4794	4329
65°	5912	4307	3854
70°	5551	3746	3306
75°	4945	3084	2673
80°	4214	2304	1965
85°	3253	1364	1084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7063 cd/sqm

TEST NUMBER: P1028245

CATALOG NUMBER: S125DIP-B850D1270UB27-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.6
10°-20°	348.7	4.5
20°-30°	514.8	6.7
30°-40°	600.6	7.8
40°-50°	603.2	7.8
50°-60°	529.5	6.9
60°-70°	394.4	5.1
70°-80°	225.2	2.9
80°-90°	67.3	0.9
90°-100°	430.0	5.6
100°-110°	893.1	11.6
110°-120°	834.2	10.8
120°-130°	675.0	8.8
130°-140°	542.4	7.0
140°-150°	409.4	5.3
150°-160°	288.2	3.7
160°-170°	169.9	2.2
170°-180°	55.2	0.7
0°-30°	986.9	12.8
0°-40°	1587.5	20.6
0°-60°	2720.3	35.3
0°-90°	3407.3	44.2
90°-120°	2157.3	28.0
90°-150°	3784.1	49.1
90°-180°	4298.0	55.8
0°-180°	7704.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1306	1304	1294	1303	1302	124
15°	1245	1242	1231	1236	1236	351
25°	1130	1125	1112	1114	1110	520
35°	976	972	957	952	944	611
45°	799	795	782	770	767	616
55°	609	606	591	582	574	543
65°	411	409	397	388	384	408
75°	218	216	211	208	204	232
85°	57	58	58	57	55	62
90°	1	10	18	24	26	7
95°	38	112	1020	463	270	40
105°	130	182	835	1643	1525	137
115°	232	280	670	1444	1699	229
125°	322	378	642	1149	1339	286
135°	378	454	638	963	1112	293
145°	440	504	640	797	877	276
155°	502	540	624	705	736	231
165°	548	563	599	635	645	154
175°	570	570	574	581	579	54
180°	571	571	571	571	571	

TEST NUMBER: P1028245

CATALOG NUMBER: S125DIP-B850D1270UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1312.4	1309.3	1298.9	1309.3	1308.2
5°	1306.2	1304.1	1293.7	1303.1	1302.0
7.5°	1296.8	1294.8	1283.4	1292.7	1291.7
10°	1283.4	1281.3	1269.9	1278.2	1277.2
12.5°	1266.8	1262.7	1252.3	1258.6	1258.6
15°	1245.1	1242.0	1230.6	1235.8	1235.8
17.5°	1222.3	1217.2	1205.8	1212.0	1206.8
20°	1192.3	1190.2	1176.8	1184.0	1178.9
22.5°	1162.3	1158.2	1145.7	1149.9	1146.8
25°	1130.2	1125.0	1111.6	1113.7	1110.5
27.5°	1093.0	1089.8	1076.4	1077.4	1074.3
30°	1056.7	1053.6	1038.1	1036.0	1032.9
32.5°	1017.4	1012.2	998.8	994.6	988.4
35°	976.0	971.9	957.4	952.2	943.9
37.5°	933.6	928.4	914.9	907.7	902.5
40°	890.1	884.9	870.4	861.1	858.0
42.5°	843.5	839.4	824.9	816.6	811.4
45°	799.0	794.9	782.5	770.0	766.9
47.5°	750.4	751.4	735.9	723.5	716.2
50°	703.8	700.7	688.3	674.8	667.6
52.5°	656.2	654.1	640.7	629.3	621.0
55°	608.6	605.5	591.0	581.7	574.4
57.5°	557.9	556.8	544.4	532.0	528.9
60°	510.3	506.1	494.7	484.4	477.1
62.5°	460.6	457.5	448.2	436.8	431.6
65°	410.9	408.8	397.4	388.1	384.0
67.5°	362.2	358.1	349.8	341.5	339.5
70°	316.7	311.5	302.2	296.0	291.9
72.5°	267.0	263.9	258.7	251.5	247.4
75°	218.4	216.3	211.1	208.0	203.9
77.5°	172.8	171.8	168.7	166.6	163.5
80°	130.4	130.4	128.3	127.3	125.2
82.5°	93.1	91.1	91.1	89.0	89.0
85°	56.9	58.0	58.0	56.9	54.9
87.5°	27.9	27.9	26.9	26.9	24.8
90°	1.2	10.4	18.4	24.2	26.5
92.5°	17.3	94.4	459.3	122.6	85.2
95°	38.0	112.2	1020.0	462.8	270.5
97.5°	58.7	121.4	1101.7	835.8	592.9
100°	80.6	139.3	1039.5	1181.2	897.9
102.5°	104.8	159.4	930.2	1473.5	1238.7
105°	130.1	181.9	834.6	1643.4	1525.3
107.5°	154.3	205.5	763.2	1691.1	1698.0
110°	180.7	230.2	716.0	1645.6	1776.3

TEST NUMBER: P1028245

CATALOG NUMBER: S125DIP-B850D1270UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.2	255.0	688.4	1550.6	1767.1
115°	232.5	280.3	670.0	1444.2	1699.2
117.5°	255.6	306.2	659.6	1347.5	1596.7
120°	278.6	331.0	652.7	1266.4	1497.7
122.5°	302.8	355.2	647.0	1201.3	1410.2
125°	322.3	377.6	642.4	1148.9	1338.8
127.5°	338.5	399.4	640.1	1104.0	1273.2
130°	353.4	420.2	637.8	1058.5	1221.4
132.5°	364.9	438.6	637.8	1009.6	1169.6
135°	377.6	454.2	637.8	963.0	1112.1
137.5°	393.7	468.6	638.9	914.0	1052.2
140°	407.5	480.6	640.1	869.2	988.9
142.5°	423.6	492.1	641.2	830.6	930.2
145°	439.8	503.6	640.1	797.2	877.2
147.5°	457.0	514.0	637.8	768.4	830.0
150°	472.0	523.2	634.3	744.8	792.0
152.5°	488.1	532.4	629.7	724.7	762.1
155°	501.9	540.0	623.9	705.1	735.6
157.5°	514.6	547.4	618.2	686.7	711.4
160°	527.2	553.2	612.4	668.2	687.3
162.5°	537.6	558.9	605.5	651.6	665.4
165°	548.0	563.0	598.6	634.9	644.7
167.5°	554.9	565.2	591.7	619.3	625.1
170°	561.8	568.1	586.0	604.4	607.8
172.5°	566.4	569.2	579.1	592.3	591.7
175°	569.8	569.8	574.4	581.4	579.1
177.5°	572.1	569.8	571.0	574.4	571.0
180°	571.0	571.0	571.0	571.0	571.0

(END OF REPORT)