

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: P1028244

Luminaire Tested: S125DIP-B850D1270UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028244
REPORT IS A COMBINATION OF REPORTS P1002486 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

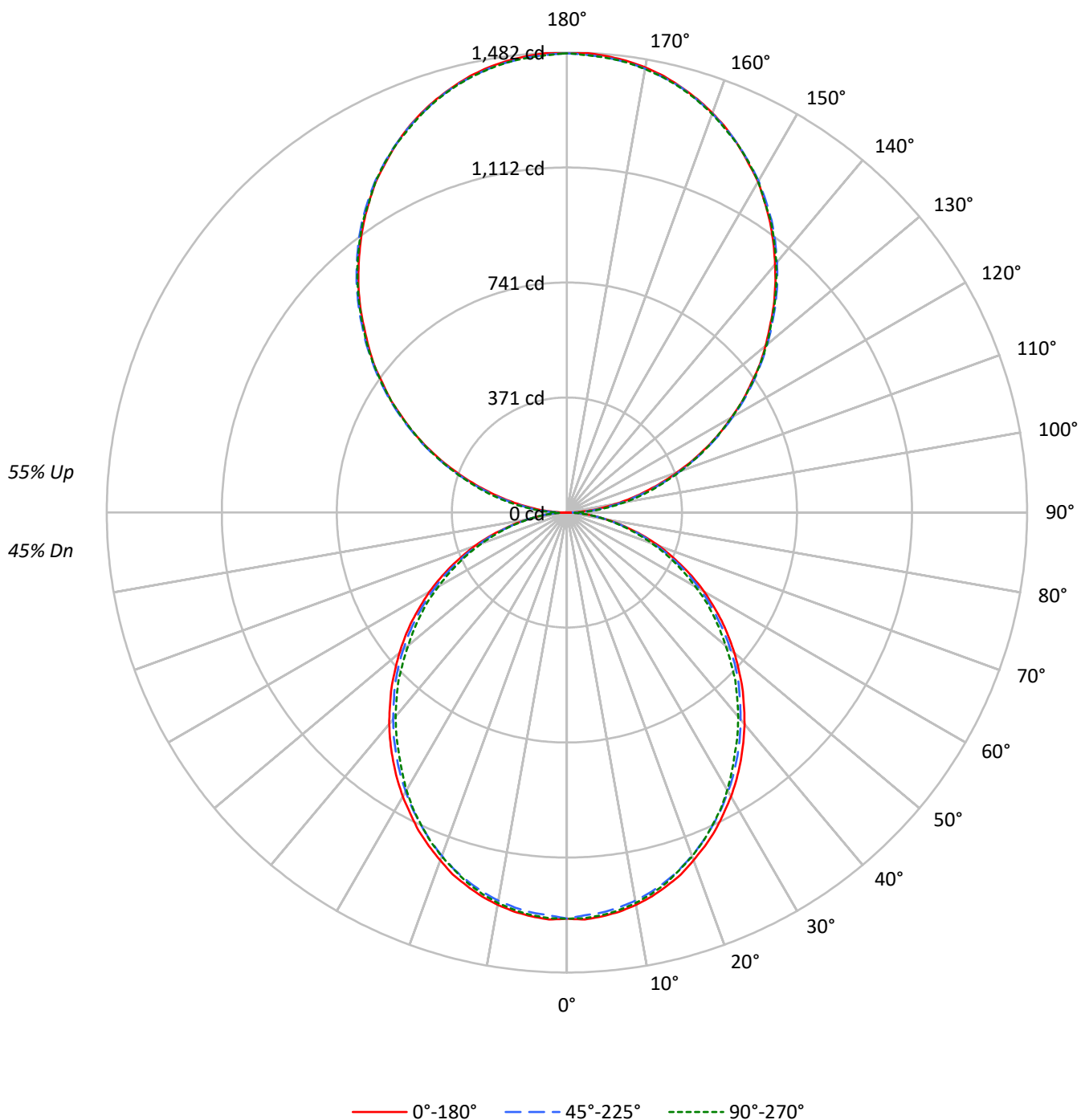
Lumens per Lamp: N/A
Luminaire Lumens: 7536.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	81	81	81	66	66	66	52	52	52
1	97	92	88	85	88	85	81	78	71	68	66	58	56	54	46	45	44
2	88	81	74	69	80	74	69	64	62	58	55	51	48	45	40	38	37
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	49	37	30	25	45	35	28	23	29	24	20	25	21	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.6
10°-20°	348.7	4.6
20°-30°	514.8	6.8
30°-40°	600.6	8.0
40°-50°	603.2	8.0
50°-60°	529.5	7.0
60°-70°	394.4	5.2
70°-80°	225.2	3.0
80°-90°	67.3	0.9
90°-100°	98.4	1.3
100°-110°	292.2	3.9
110°-120°	495.6	6.6
120°-130°	652.5	8.7
130°-140°	731.2	9.7
140°-150°	716.7	9.5
150°-160°	602.0	8.0
160°-170°	400.2	5.3
170°-180°	140.0	1.9
0°-30°	986.9	13.1
0°-40°	1587.5	21.1
0°-60°	2720.3	36.1
0°-90°	3407.3	45.2
90°-120°	886.2	11.8
90°-150°	2986.5	39.6
90°-180°	4129.0	54.8
0°-180°	7536.0	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	28	9
95°	75	77	89	97	99	78
105°	262	268	275	282	286	280
115°	496	501	503	502	501	491
125°	724	731	732	730	729	649
135°	942	949	950	950	945	726
145°	1141	1146	1149	1149	1146	713
155°	1306	1306	1307	1311	1306	601
165°	1420	1417	1418	1423	1416	401
175°	1476	1471	1471	1478	1470	140
180°	1479	1479	1479	1479	1479	

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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	27.6
92.5°	34.5	40.3	50.7	58.7	61.0
95°	74.8	77.1	88.6	96.7	99.0
97.5°	115.1	116.3	132.4	139.3	140.5
100°	161.2	161.2	176.1	186.5	188.8
102.5°	210.7	216.4	222.2	233.7	237.2
105°	262.5	268.2	275.1	282.1	285.5
107.5°	318.9	324.6	330.4	333.9	333.9
110°	377.6	383.4	386.8	390.3	389.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	439.8	444.4	445.5	443.2
115°	496.2	500.8	503.1	501.9	500.8
117.5°	556.0	557.2	559.5	560.6	556.0
120°	611.3	617.1	618.2	618.2	613.6
122.5°	671.2	672.3	675.8	674.6	671.2
125°	724.1	731.0	732.2	729.9	728.7
127.5°	782.8	786.3	787.4	786.3	784.0
130°	834.6	840.4	842.7	841.6	839.2
132.5°	886.4	896.8	895.7	894.5	891.1
135°	941.7	948.6	949.8	949.8	945.2
137.5°	993.5	1000.4	1002.7	1003.9	998.1
140°	1043.0	1048.8	1052.2	1054.5	1048.8
142.5°	1092.5	1097.1	1101.7	1102.9	1097.1
145°	1140.9	1145.5	1148.9	1148.9	1145.5
147.5°	1185.8	1189.2	1191.5	1195.0	1185.8
150°	1230.7	1229.5	1234.1	1234.1	1231.8
152.5°	1267.5	1269.8	1271.0	1274.4	1269.8
155°	1305.5	1305.5	1306.6	1311.3	1305.5
157.5°	1340.0	1337.7	1338.9	1343.5	1335.4
160°	1370.0	1366.5	1367.7	1372.3	1366.5
162.5°	1396.4	1394.1	1394.1	1399.9	1393.0
165°	1419.5	1417.2	1418.3	1422.9	1416.0
167.5°	1440.2	1435.6	1435.6	1442.5	1435.6
170°	1456.3	1451.7	1451.7	1458.6	1450.6
172.5°	1467.8	1463.2	1463.2	1470.1	1463.2
175°	1475.9	1471.3	1471.3	1478.2	1470.1
177.5°	1481.6	1477.0	1475.9	1482.8	1474.7
180°	1479.3	1479.3	1479.3	1479.3	1479.3

(END OF REPORT)