

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: P1027005

Luminaire Tested: S125DIP-B850D1270UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027005
REPORT IS A COMBINATION OF REPORTS P1002499 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

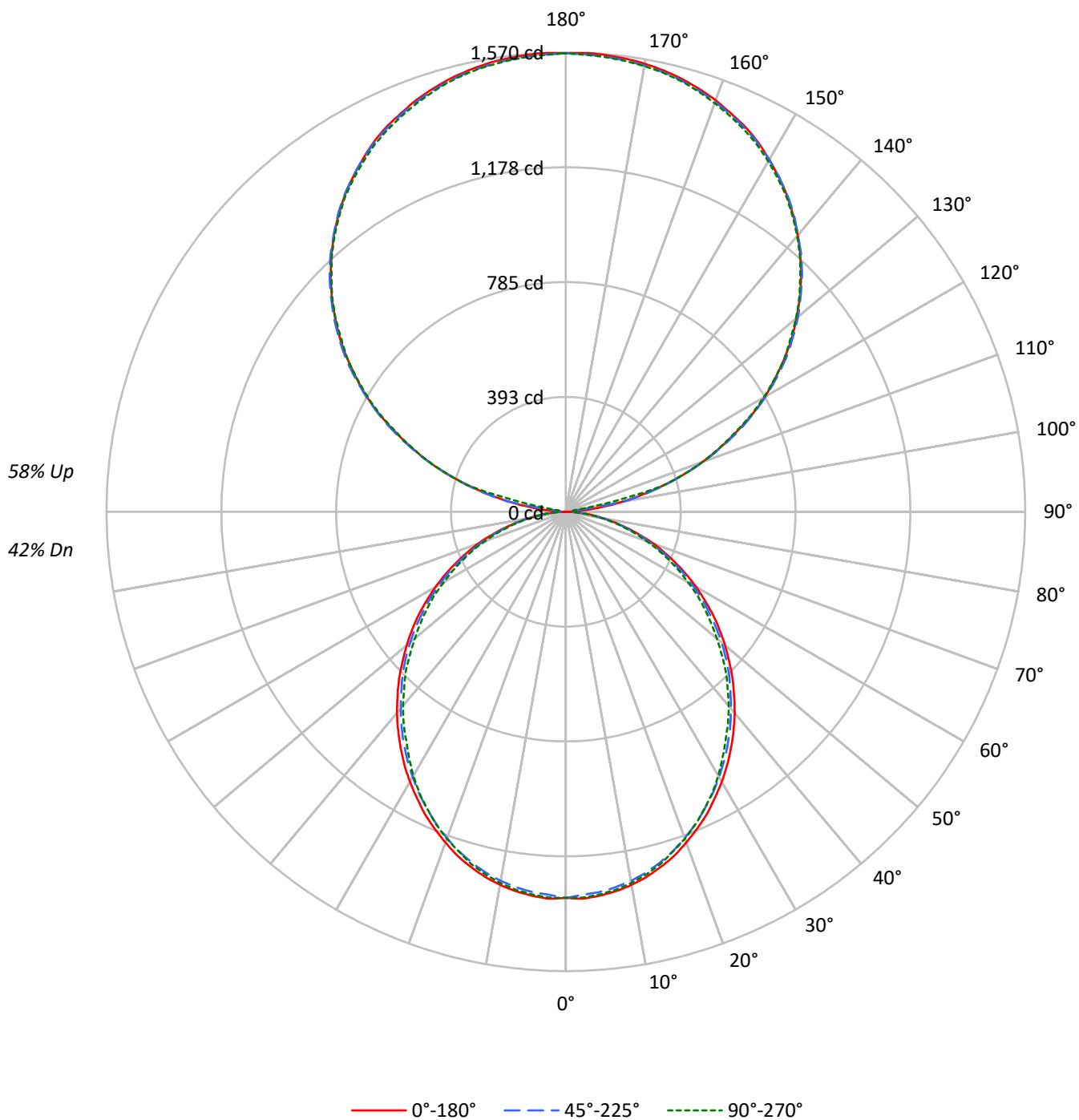
Lumens per Lamp: N/A
Luminaire Lumens: 8250.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1027005

CATALOG NUMBER: S125DIP-B850D1270UB2750-4F0-XX-W2A-F_3000K

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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	48	48	48
1	96	92	88	84	87	84	80	77	69	67	64	55	54	52	43	42	41	41	41	41
2	87	80	74	69	79	73	68	63	60	57	53	48	46	44	38	36	34	34	34	34
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	33	31	29	29	29	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	30	27	25	25	25	25
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22	22	22	22
6	61	49	41	36	56	45	38	33	38	33	29	31	27	24	24	21	19	19	19	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17
8	53	40	33	28	48	37	30	26	31	26	22	26	22	19	20	17	15	15	15	15
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	14	14	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	13	13	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8456	8456	8456
5°	8456	8259	8275
10°	8386	8070	8045
15°	8276	7843	7774
20°	8127	7581	7462
25°	7968	7295	7128
30°	7774	6996	6777
35°	7569	6683	6384
40°	7356	6353	6034
45°	7126	6030	5662
50°	6872	5665	5229
55°	6621	5262	4831
60°	6322	4837	4367
65°	5964	4345	3888
70°	5601	3780	3334
75°	4988	3112	2696
80°	4253	2325	1983
85°	3282	1376	1092

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7126 cd/sqm

TEST NUMBER: P1027005

CATALOG NUMBER: S125DIP-B850D1270UB2750-4F0-XX-W2A-F_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.5
10°-20°	351.8	4.3
20°-30°	519.3	6.3
30°-40°	605.9	7.3
40°-50°	608.5	7.4
50°-60°	534.2	6.5
60°-70°	397.9	4.8
70°-80°	227.2	2.8
80°-90°	67.9	0.8
90°-100°	53.2	0.6
100°-110°	353.6	4.3
110°-120°	636.8	7.7
120°-130°	817.3	9.9
130°-140°	879.0	10.7
140°-150°	825.0	10.0
150°-160°	667.3	8.1
160°-170°	431.6	5.2
170°-180°	148.8	1.8
0°-30°	995.6	12.1
0°-40°	1601.5	19.4
0°-60°	2744.3	33.3
0°-90°	3437.3	41.7
90°-120°	1043.5	12.6
90°-150°	3564.9	43.2
90°-180°	4813.0	58.3
0°-180°	8250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1318	1316	1305	1314	1314	125
15°	1256	1253	1241	1247	1247	354
25°	1140	1135	1121	1124	1120	525
35°	985	980	966	961	952	616
45°	806	802	789	777	774	621
55°	614	611	596	587	580	548
65°	414	412	401	392	387	411
75°	220	218	213	210	206	235
85°	57	58	58	57	55	63
90°	1	10	19	24	28	7
95°	66	63	19	24	24	81
105°	342	346	346	346	345	362
115°	641	647	648	643	636	636
125°	912	920	920	915	912	814
135°	1137	1144	1142	1139	1132	877
145°	1318	1320	1320	1322	1315	824
155°	1452	1445	1447	1451	1441	669
165°	1532	1525	1526	1533	1524	433
175°	1567	1560	1561	1570	1560	149
180°	1567	1567	1567	1567	1567	

TEST NUMBER: P1027005

CATALOG NUMBER: S125DIP-B850D1270UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.8	1319.8	1319.8	1319.8	1319.8
2.5°	1323.9	1320.8	1310.4	1320.8	1319.8
5°	1317.7	1315.6	1305.1	1314.5	1313.5
7.5°	1308.3	1306.2	1294.7	1304.1	1303.1
10°	1294.7	1292.6	1281.1	1289.5	1288.4
12.5°	1278.0	1273.8	1263.4	1269.6	1269.6
15°	1256.1	1252.9	1241.4	1246.7	1246.7
17.5°	1233.1	1227.9	1216.4	1222.7	1217.4
20°	1202.8	1200.7	1187.2	1194.5	1189.2
22.5°	1172.5	1168.4	1155.8	1160.0	1156.9
25°	1140.2	1134.9	1121.4	1123.5	1120.3
27.5°	1102.6	1099.4	1085.9	1086.9	1083.8
30°	1066.0	1062.9	1047.2	1045.2	1042.0
32.5°	1026.4	1021.1	1007.6	1003.4	997.1
35°	984.6	980.4	965.8	960.6	952.2
37.5°	941.8	936.6	923.0	915.7	910.5
40°	897.9	892.7	878.1	868.7	865.6
42.5°	851.0	846.8	832.2	823.8	818.6
45°	806.1	801.9	789.3	776.8	773.7
47.5°	757.0	758.0	742.4	729.8	722.5
50°	710.0	706.9	694.3	680.8	673.5
52.5°	662.0	659.9	646.3	634.8	626.5
55°	613.9	610.8	596.2	586.8	579.5
57.5°	562.8	561.7	549.2	536.7	533.5
60°	514.7	510.6	499.1	488.6	481.3
62.5°	464.6	461.5	452.1	440.6	435.4
65°	414.5	412.4	400.9	391.5	387.4
67.5°	365.4	361.3	352.9	344.6	342.5
70°	319.5	314.3	304.9	298.6	294.4
72.5°	269.4	266.2	261.0	253.7	249.5
75°	220.3	218.2	213.0	209.9	205.7
77.5°	174.4	173.3	170.2	168.1	165.0
80°	131.6	131.6	129.5	128.4	126.3
82.5°	94.0	91.9	91.9	89.8	89.8
85°	57.4	58.5	58.5	57.4	55.3
87.5°	28.2	28.2	27.1	27.1	25.1
90°	1.2	10.5	18.6	24.4	27.9
92.5°	22.1	11.6	18.6	24.4	25.6
95°	66.2	62.7	18.6	24.4	24.4
97.5°	124.3	131.2	20.9	23.2	24.4
100°	194.0	197.4	202.1	29.0	24.4
102.5°	264.8	269.4	271.8	274.1	176.5
105°	341.5	346.1	346.1	346.1	344.9
107.5°	420.4	420.4	422.8	423.9	419.3
110°	497.1	497.1	499.4	495.9	497.1

TEST NUMBER: P1027005

CATALOG NUMBER: S125DIP-B850D1270UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	569.1	572.6	573.7	569.1	566.8
115°	641.1	646.9	648.1	643.4	636.4
117.5°	716.6	716.6	721.2	714.3	711.9
120°	786.3	785.1	788.6	786.3	780.5
122.5°	847.8	853.6	854.8	852.5	845.5
125°	911.7	919.8	919.8	915.2	911.7
127.5°	973.3	979.1	977.9	975.6	966.3
130°	1029.0	1034.8	1036.0	1032.5	1026.7
132.5°	1084.8	1091.7	1088.2	1088.2	1082.4
135°	1137.0	1144.0	1141.7	1139.3	1132.4
137.5°	1185.8	1192.8	1190.4	1190.4	1184.6
140°	1233.4	1235.7	1234.6	1236.9	1229.9
142.5°	1276.4	1277.5	1279.9	1279.9	1272.9
145°	1318.2	1320.5	1320.5	1321.7	1314.7
147.5°	1355.4	1355.4	1356.5	1357.7	1349.6
150°	1390.2	1387.9	1390.2	1392.5	1383.2
152.5°	1423.9	1418.1	1420.4	1422.7	1414.6
155°	1451.8	1444.8	1447.1	1450.6	1441.3
157.5°	1473.8	1470.3	1470.3	1473.8	1464.5
160°	1497.0	1490.1	1491.2	1495.9	1486.6
162.5°	1515.6	1508.7	1509.8	1516.8	1506.3
165°	1531.9	1524.9	1526.1	1533.1	1523.8
167.5°	1544.7	1537.7	1538.9	1547.0	1536.5
170°	1555.1	1547.0	1548.2	1557.4	1547.0
172.5°	1562.1	1554.0	1556.3	1564.4	1554.0
175°	1566.7	1559.8	1560.9	1570.2	1559.8
177.5°	1570.2	1563.2	1564.4	1572.5	1563.2
180°	1566.7	1566.7	1566.7	1566.7	1566.7

(END OF REPORT)