

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: P1027718

Luminaire Tested: S125DIP-B1270D850UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027718
REPORT IS A COMBINATION OF REPORTS P1001786 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

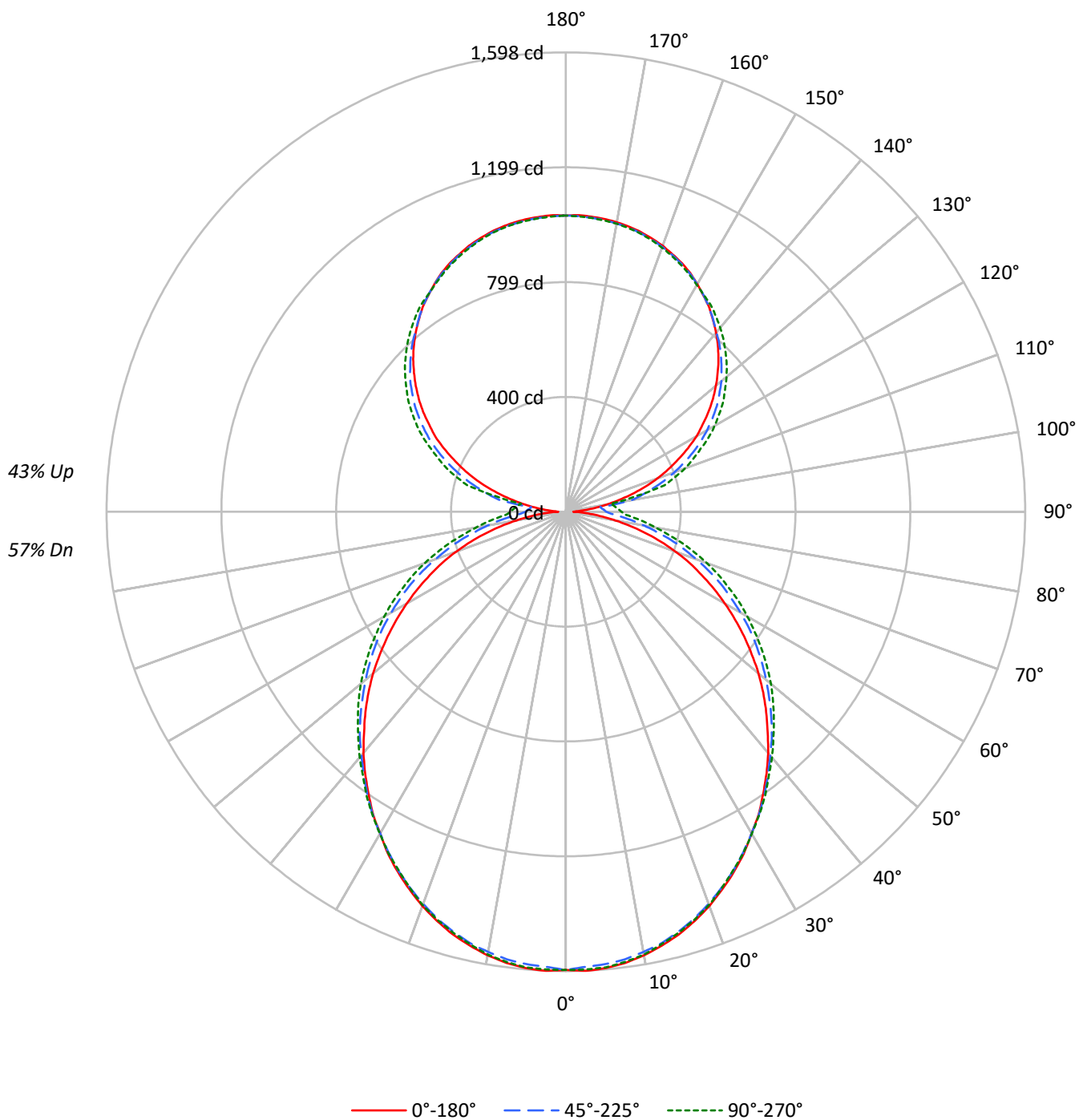
Lumens per Lamp: N/A
Luminaire Lumens: 8104.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63
1	99	94	90	86	92	87	84	80	75	73	70	64	62	60	54	53	51
2	89	81	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43
3	81	71	64	57	75	67	60	54	58	52	48	49	45	42	42	38	36
4	74	63	55	48	69	59	51	46	51	45	41	44	39	36	37	34	31
5	68	56	48	41	63	52	45	39	46	40	35	39	34	31	33	30	27
6	63	50	42	36	58	47	39	34	41	35	30	35	31	27	30	26	23
7	58	45	37	31	54	43	35	30	37	31	27	32	27	24	27	24	21
8	54	41	33	28	50	39	31	26	34	28	24	29	25	21	25	21	19
9	50	38	30	25	47	35	28	23	31	25	21	27	22	19	23	19	17
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10211	10211	10211
5°	10228	9997	10021
10°	10151	9793	9765
15°	10027	9556	9450
20°	9860	9269	9137
25°	9663	8965	8759
30°	9423	8632	8414
35°	9200	8326	8097
40°	8973	8003	7777
45°	8715	7723	7490
50°	8469	7419	7230
55°	8173	7129	6929
60°	7848	6799	6620
65°	7510	6451	6273
70°	7120	5985	5910
75°	6510	5524	5469
80°	5707	4966	4980
85°	4911	4519	4723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.9
10°-20°	428.1	5.3
20°-30°	636.6	7.9
30°-40°	754.0	9.3
40°-50°	779.5	9.6
50°-60°	718.0	8.9
60°-70°	580.5	7.2
70°-80°	388.4	4.8
80°-90°	202.3	2.5
90°-100°	148.0	1.8
100°-110°	315.9	3.9
110°-120°	474.6	5.9
120°-130°	569.2	7.0
130°-140°	592.0	7.3
140°-150°	545.4	6.7
150°-160°	439.0	5.4
160°-170°	283.9	3.5
170°-180°	97.9	1.2
0°-30°	1215.5	15.0
0°-40°	1969.5	24.3
0°-60°	3467.0	42.8
0°-90°	4638.1	57.2
90°-120°	938.6	11.6
90°-150°	2645.1	32.6
90°-180°	3466.0	42.8
0°-180°	8104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1594	1591	1580	1592	1591	151
15°	1522	1523	1512	1522	1516	429
25°	1383	1388	1378	1384	1376	637
35°	1197	1208	1203	1208	1208	749
45°	986	1003	1011	1022	1023	761
55°	758	783	808	825	831	677
65°	522	558	595	619	625	518
75°	288	328	378	409	417	305
85°	86	138	192	227	239	90
90°	26	82	140	180	193	20
95°	64	102	126	164	175	69
105°	239	267	314	345	355	253
115°	431	446	487	512	517	427
125°	606	610	641	663	668	541
135°	751	754	763	782	785	579
145°	869	869	869	877	879	543
155°	955	950	952	954	948	440
165°	1008	1003	1004	1008	1002	285
175°	1030	1026	1027	1033	1026	98
180°	1030	1030	1030	1030	1030	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.4	1595.3	1584.3	1595.3	1593.7
5°	1593.7	1590.6	1579.6	1592.1	1590.6
7.5°	1582.8	1581.2	1570.3	1581.2	1579.6
10°	1567.1	1567.1	1554.6	1565.6	1564.0
12.5°	1545.3	1546.8	1537.5	1545.3	1540.6
15°	1521.8	1523.4	1512.5	1521.8	1515.6
17.5°	1492.1	1495.3	1484.3	1492.1	1487.5
20°	1459.3	1462.5	1451.5	1456.2	1456.2
22.5°	1421.8	1428.1	1415.6	1421.8	1417.1
25°	1382.8	1387.5	1378.1	1384.3	1376.5
27.5°	1340.6	1346.8	1335.9	1340.6	1337.5
30°	1292.1	1301.5	1292.1	1295.3	1293.7
32.5°	1248.4	1256.2	1250.0	1253.1	1251.5
35°	1196.8	1207.8	1203.1	1207.8	1207.8
37.5°	1146.8	1156.2	1154.7	1160.9	1159.3
40°	1095.3	1107.8	1106.2	1112.5	1115.6
42.5°	1039.0	1056.2	1060.9	1068.7	1068.7
45°	985.9	1003.1	1010.9	1021.8	1023.4
47.5°	931.2	946.8	959.3	975.0	978.1
50°	875.0	892.2	909.3	926.5	931.2
52.5°	815.6	837.5	859.3	878.1	881.2
55°	757.8	782.8	807.8	825.0	831.2
57.5°	698.4	728.1	756.2	775.0	779.7
60°	639.0	670.3	701.5	725.0	729.7
62.5°	581.2	612.5	646.9	673.4	679.7
65°	521.9	557.8	595.3	618.7	625.0
67.5°	467.2	501.5	539.0	567.2	575.0
70°	406.2	442.2	482.8	512.5	521.9
72.5°	346.9	384.4	429.7	462.5	468.7
75°	287.5	328.1	378.1	409.4	417.2
77.5°	229.7	276.6	323.4	357.8	364.1
80°	176.6	223.4	276.6	310.9	317.2
82.5°	128.1	178.1	232.8	265.6	278.1
85°	85.9	137.5	192.2	226.6	239.1
87.5°	54.7	104.7	157.8	193.7	204.7
90°	25.8	81.9	140.3	180.1	193.3
92.5°	36.4	74.8	134.1	172.2	184.0
95°	63.8	102.2	126.3	164.4	175.4
97.5°	100.4	142.5	121.6	155.9	167.6
100°	144.8	179.9	232.9	151.9	158.2
102.5°	189.8	222.5	272.5	305.3	250.5
105°	238.7	266.7	313.5	344.8	355.0
107.5°	289.0	310.9	357.8	389.7	396.1
110°	337.8	356.6	401.9	429.3	441.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	385.2	401.6	444.6	469.6	479.0
115°	431.1	445.8	487.2	512.3	517.0
117.5°	479.1	486.9	529.1	551.0	560.5
120°	525.0	528.9	567.1	592.2	597.7
122.5°	563.8	569.3	604.4	627.9	632.7
125°	605.9	609.7	640.9	662.9	668.4
127.5°	644.8	647.1	672.9	694.8	698.1
130°	681.5	683.7	706.4	726.0	730.0
132.5°	716.6	721.2	734.5	756.4	758.9
135°	751.0	754.0	763.4	782.2	785.4
137.5°	783.0	786.1	790.8	809.6	812.0
140°	812.9	814.4	815.1	833.9	835.6
142.5°	841.1	840.3	841.8	855.9	857.5
145°	868.6	868.6	868.6	877.1	878.8
147.5°	891.5	891.5	892.2	896.1	893.8
150°	914.4	912.9	914.4	915.9	911.4
152.5°	936.5	932.7	934.2	935.8	930.4
155°	954.9	950.3	951.8	954.1	948.0
157.5°	969.4	967.1	967.1	969.4	963.3
160°	984.7	980.1	980.8	983.9	977.8
162.5°	996.9	992.3	993.1	997.7	990.8
165°	1007.6	1003.0	1003.8	1008.3	1002.2
167.5°	1016.0	1011.4	1012.2	1017.5	1010.6
170°	1022.9	1017.5	1018.3	1024.4	1017.5
172.5°	1027.4	1022.1	1023.6	1029.0	1022.1
175°	1030.5	1025.9	1026.7	1032.8	1025.9
177.5°	1032.8	1028.2	1029.0	1034.3	1028.2
180°	1030.5	1030.5	1030.5	1030.5	1030.5

(END OF REPORT)