

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: P1027720

Luminaire Tested: S125DIP-B1270D850UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027720
REPORT IS A COMBINATION OF REPORTS P1001788 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-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

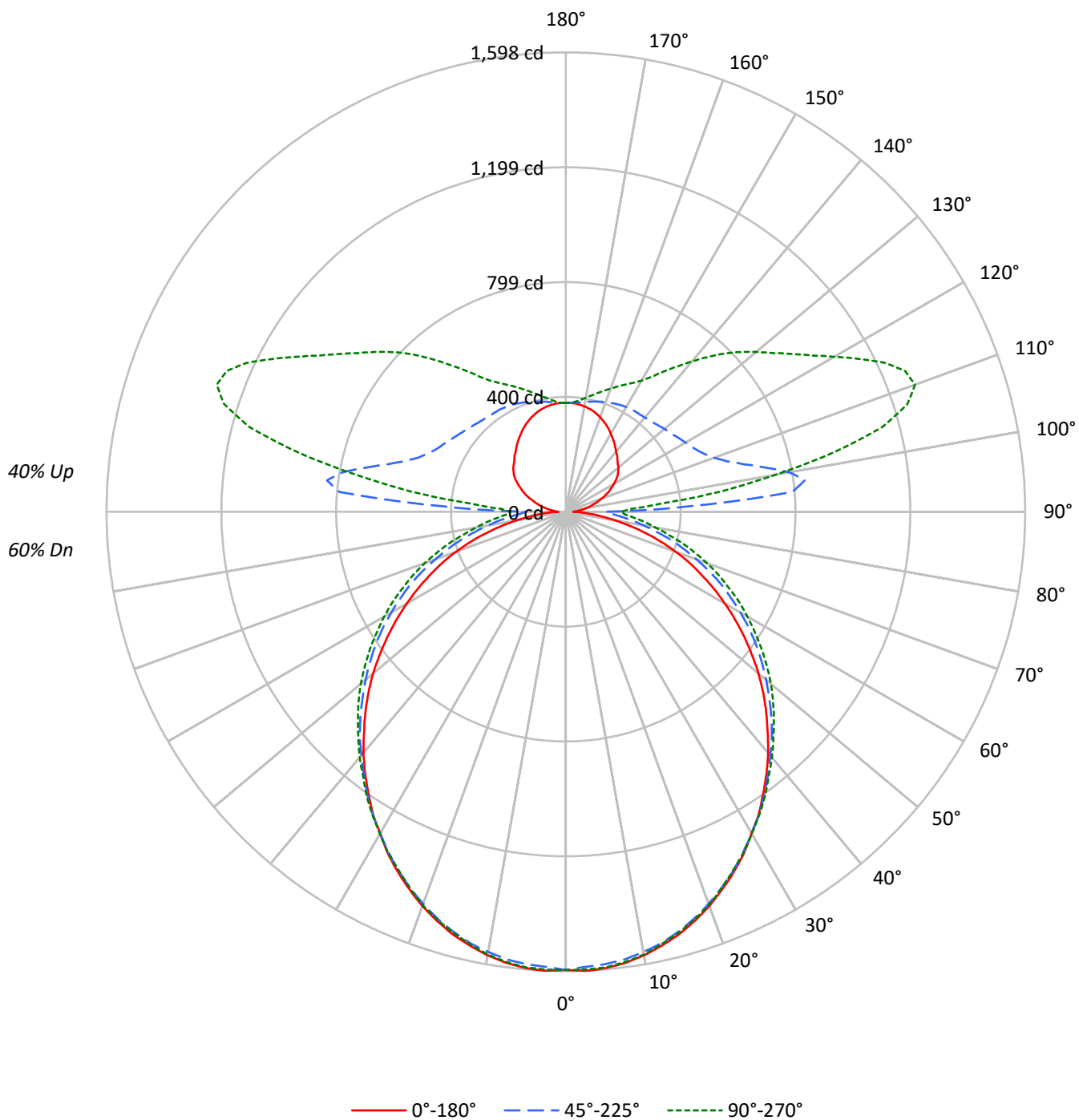
Lumens per Lamp: N/A
Luminaire Lumens: 7788.9 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	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°	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	5.5
20°-30°	636.6	8.2
30°-40°	754.0	9.7
40°-50°	779.5	10.0
50°-60°	718.0	9.2
60°-70°	580.5	7.5
70°-80°	388.4	5.0
80°-90°	202.3	2.6
90°-100°	398.3	5.1
100°-110°	675.7	8.7
110°-120°	609.1	7.8
120°-130°	479.3	6.2
130°-140°	373.5	4.8
140°-150°	274.3	3.5
150°-160°	191.2	2.5
160°-170°	112.7	1.4
170°-180°	36.6	0.5
0°-30°	1215.5	15.6
0°-40°	1969.5	25.3
0°-60°	3467.0	44.5
0°-90°	4638.1	59.5
90°-120°	1683.1	21.6
90°-150°	2810.2	36.1
90°-180°	3151.0	40.5
0°-180°	7788.9	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	19
95°	46	135	791	455	339	42
105°	100	160	640	1207	1140	106
115°	164	206	505	1047	1225	161
125°	220	255	462	823	957	195
135°	254	303	436	672	778	197
145°	293	334	424	537	596	183
155°	333	358	414	468	488	153
165°	363	373	397	421	428	102
175°	378	378	381	386	384	36
180°	379	379	379	379	379	

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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	81.8	140.3	180.2	192.6
92.5°	33.4	129.9	426.5	237.6	223.7
95°	45.5	135.4	790.6	455.4	338.8
97.5°	57.6	136.8	838.5	694.9	544.8
100°	70.6	142.4	789.5	916.2	737.8
102.5°	85.1	151.0	710.6	1102.4	956.0
105°	100.4	159.7	639.5	1207.1	1139.8
107.5°	114.8	170.6	585.9	1232.5	1246.5
110°	130.8	182.4	548.3	1194.6	1292.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	148.3	194.1	523.8	1123.8	1278.2
115°	163.6	206.2	505.3	1047.0	1225.4
117.5°	177.3	218.7	492.2	974.9	1151.2
120°	192.6	232.0	481.3	914.9	1077.8
122.5°	207.0	243.4	471.3	864.0	1011.9
125°	220.0	255.2	462.0	822.9	956.7
127.5°	229.2	268.0	454.2	785.4	907.0
130°	239.1	281.8	448.0	749.0	864.8
132.5°	245.1	294.0	441.7	710.2	822.6
135°	253.5	302.8	435.5	671.5	778.2
137.5°	264.2	312.4	431.6	632.8	730.7
140°	271.9	320.4	427.6	596.8	682.5
142.5°	282.6	326.4	425.3	565.0	637.2
145°	293.3	334.0	424.5	536.6	595.9
147.5°	303.1	340.9	423.0	512.8	556.7
150°	313.0	347.0	420.7	494.0	526.9
152.5°	323.7	353.2	417.7	480.6	505.5
155°	332.9	358.1	413.8	467.7	487.9
157.5°	341.3	363.1	410.0	455.4	471.9
160°	349.7	366.8	406.2	443.2	455.8
162.5°	356.6	370.7	401.6	432.2	441.3
165°	363.4	373.4	397.0	421.1	427.6
167.5°	368.0	374.9	392.5	410.8	414.6
170°	372.6	376.8	388.6	400.8	403.1
172.5°	375.7	377.5	384.1	392.8	392.5
175°	377.9	377.9	381.0	385.6	384.1
177.5°	379.5	377.9	378.7	381.0	378.7
180°	378.7	378.7	378.7	378.7	378.7

(END OF REPORT)