

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: P1027719

Luminaire Tested: S125DIP-B1270D850UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027719
REPORT IS A COMBINATION OF REPORTS P1001787 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-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

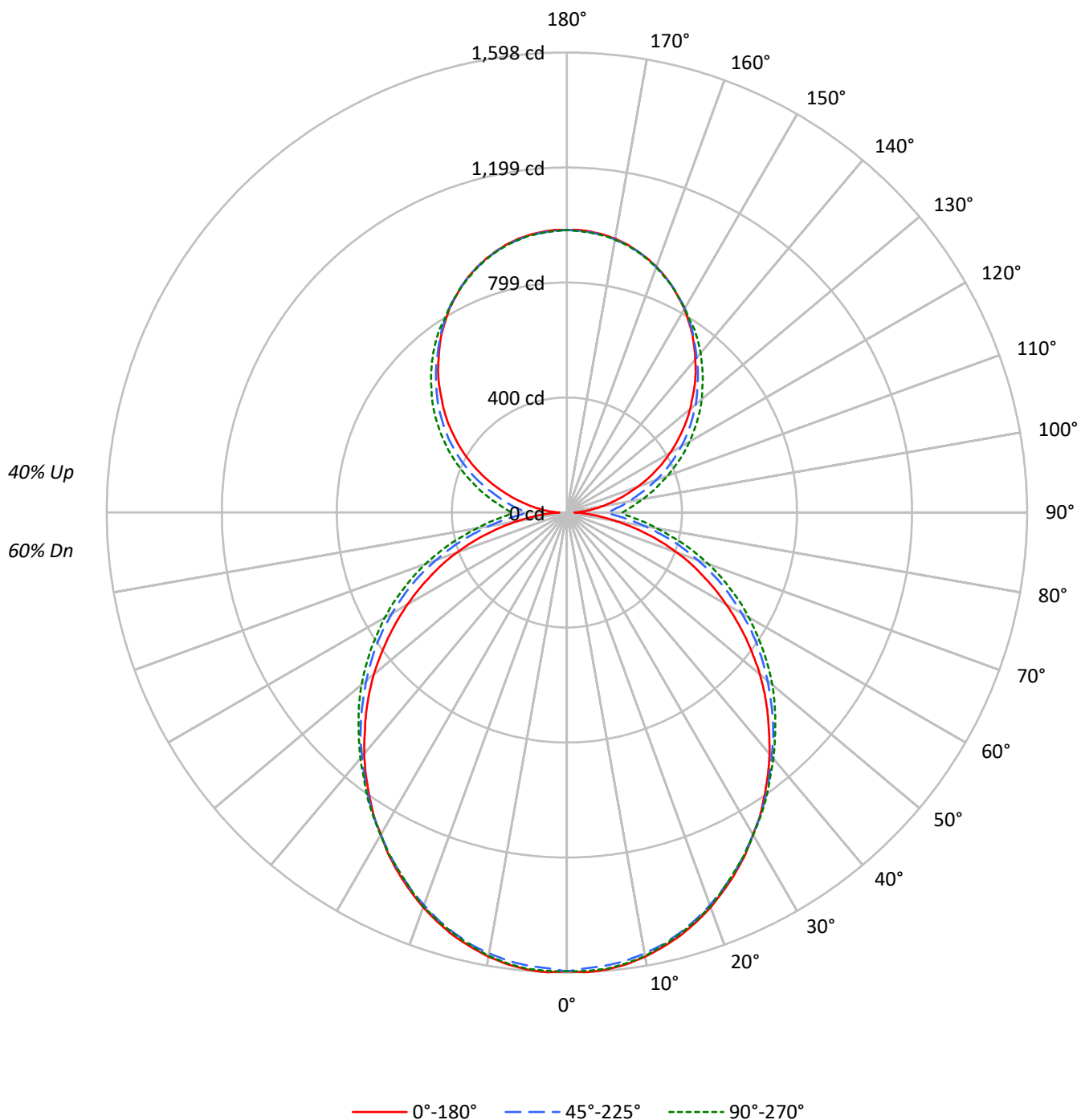
Lumens per Lamp: N/A
Luminaire Lumens: 7677.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	99	94	90	86	92	88	85	81	77	74	71	66	64	62	57	55	54
2	90	82	75	70	84	77	71	66	67	62	58	58	54	51	49	47	45
3	82	72	64	58	76	67	60	55	59	53	49	51	47	43	43	40	38
4	75	63	55	49	70	59	52	46	52	46	41	45	40	37	39	35	32
5	69	56	48	42	64	53	45	40	46	40	36	40	36	32	35	31	28
6	63	51	42	36	59	48	40	34	42	36	31	36	31	28	31	28	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	29	25	22
8	54	41	33	28	51	39	32	27	35	29	24	30	25	22	26	22	19
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	17
10	47	35	27	22	44	33	26	21	29	24	20	26	21	18	23	19	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	2.0
10°-20°	428.1	5.6
20°-30°	636.6	8.3
30°-40°	754.0	9.8
40°-50°	779.5	10.2
50°-60°	718.0	9.4
60°-70°	580.5	7.6
70°-80°	388.4	5.1
80°-90°	202.3	2.6
90°-100°	178.3	2.3
100°-110°	277.2	3.6
110°-120°	384.5	5.0
120°-130°	464.4	6.0
130°-140°	498.8	6.5
140°-150°	478.1	6.2
150°-160°	399.3	5.2
160°-170°	265.4	3.5
170°-180°	92.9	1.2
0°-30°	1215.5	15.8
0°-40°	1969.5	25.7
0°-60°	3467.0	45.2
0°-90°	4638.1	60.4
90°-120°	840.0	10.9
90°-150°	2281.3	29.7
90°-180°	3039.0	39.6
0°-180°	7677.0	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	21
95°	70	112	173	212	225	68
105°	188	217	268	304	318	201
115°	338	352	395	422	431	335
125°	486	490	522	545	552	436
135°	628	631	642	663	668	484
145°	758	760	762	770	774	474
155°	866	866	867	870	866	399
165°	942	940	941	944	939	266
175°	979	976	976	980	975	93
180°	981	981	981	981	981	

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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°	44.8	93.9	155.5	195.1	207.7
95°	69.9	112.1	172.9	212.5	225.1
97.5°	95.1	133.3	195.6	233.0	244.8
100°	124.1	156.9	216.8	256.5	267.4
102.5°	155.3	188.9	241.1	280.0	291.7
105°	188.2	217.0	268.4	304.3	317.5
107.5°	224.0	249.7	298.8	332.3	341.7
110°	261.4	284.0	330.0	362.0	372.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	301.1	316.7	361.9	390.8	400.2
115°	338.5	352.5	394.6	422.0	430.6
117.5°	376.6	385.2	425.8	453.1	461.0
120°	413.3	421.8	458.4	485.0	491.4
122.5°	451.4	453.7	490.4	514.7	521.8
125°	486.5	489.6	521.5	545.0	552.0
127.5°	523.9	524.6	552.0	574.6	582.5
130°	558.3	560.5	583.9	605.1	611.4
132.5°	591.1	597.9	612.8	633.9	637.9
135°	627.7	630.8	642.5	662.8	667.5
137.5°	662.1	665.2	672.9	692.4	694.8
140°	693.4	697.2	701.0	719.7	722.2
142.5°	726.2	727.7	730.8	745.6	748.0
145°	758.3	759.8	762.1	769.9	773.9
147.5°	786.5	788.8	790.3	795.7	792.7
150°	816.3	815.5	818.6	818.6	818.6
152.5°	840.7	842.2	843.0	845.3	842.2
155°	865.9	865.9	866.7	869.7	865.9
157.5°	888.8	887.3	888.1	891.1	885.8
160°	908.7	906.4	907.1	910.2	906.4
162.5°	926.2	924.7	924.7	928.5	923.9
165°	941.5	940.0	940.7	943.8	939.2
167.5°	955.2	952.2	952.2	956.8	952.2
170°	965.9	962.9	962.9	967.5	962.1
172.5°	973.6	970.5	970.5	975.1	970.5
175°	978.9	975.9	975.9	980.4	975.1
177.5°	982.7	979.7	978.9	983.5	978.2
180°	981.2	981.2	981.2	981.2	981.2

(END OF REPORT)