

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: P1027629

Luminaire Tested: S125DIP-B1270D375UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027629
REPORT IS A COMBINATION OF REPORTS P1001667 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB30-4F0-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

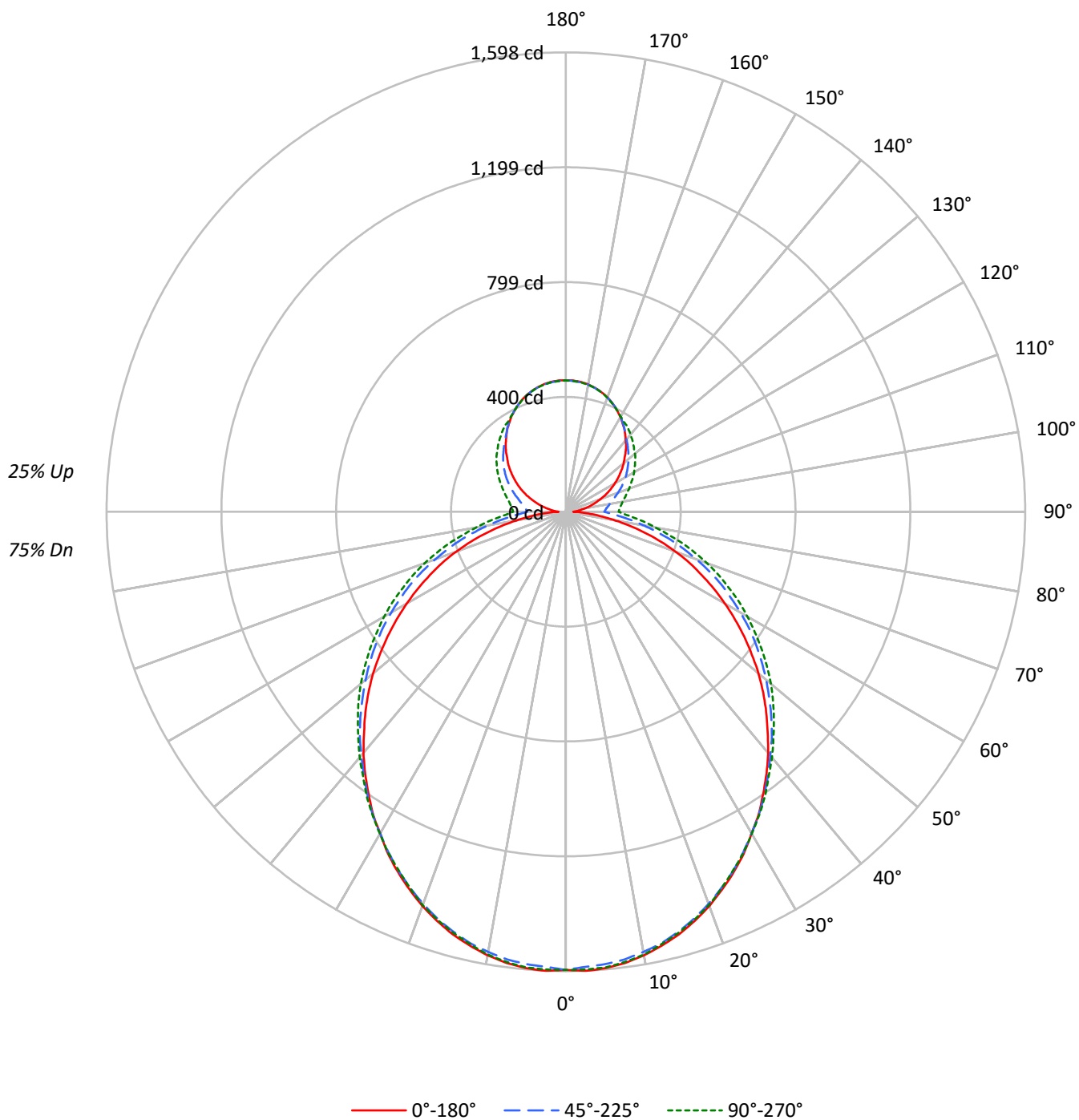
Lumens per Lamp: N/A
Luminaire Lumens: 6213.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79
1	102	97	93	89	97	92	89	85	84	80	78	75	73	71	68	66	64
2	93	84	77	72	88	80	74	69	73	68	63	66	62	58	59	56	53
3	84	74	66	59	80	70	63	57	64	58	53	58	53	49	52	48	45
4	77	65	57	50	73	62	54	48	57	50	45	51	46	42	46	42	38
5	71	58	49	43	67	56	47	41	51	44	39	46	40	36	42	37	33
6	65	52	43	37	62	50	42	36	46	39	34	42	36	32	38	33	29
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	30	26
8	56	43	35	29	53	41	34	28	38	31	27	35	29	25	32	27	23
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21
10	49	36	28	23	47	35	28	23	32	26	22	30	24	20	27	22	19

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	2.4
10°-20°	428.1	6.9
20°-30°	636.6	10.2
30°-40°	754.0	12.1
40°-50°	779.5	12.5
50°-60°	718.0	11.6
60°-70°	580.5	9.3
70°-80°	388.4	6.3
80°-90°	201.5	3.2
90°-100°	143.5	2.3
100°-110°	173.6	2.8
110°-120°	208.9	3.4
120°-130°	233.1	3.8
130°-140°	239.7	3.9
140°-150°	224.1	3.6
150°-160°	185.9	3.0
160°-170°	123.6	2.0
170°-180°	43.3	0.7
0°-30°	1215.5	19.6
0°-40°	1969.5	31.7
0°-60°	3467.0	55.8
0°-90°	4637.3	74.6
90°-120°	526.0	8.5
90°-150°	1222.9	19.7
90°-180°	1576.0	25.4
0°-180°	6213.0	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°	25	78	134	172	184	19
95°	43	85	142	178	190	40
105°	95	122	171	204	216	101
115°	163	175	216	244	253	161
125°	230	230	262	286	294	206
135°	294	295	306	326	332	227
145°	354	354	355	363	368	221
155°	403	403	404	405	403	186
165°	438	438	438	440	437	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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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°	25.4	78.2	133.8	171.6	183.5
92.5°	32.6	79.6	137.5	174.3	186.0
95°	43.4	84.7	141.5	178.3	190.0
97.5°	54.3	92.1	148.7	183.6	195.0
100°	67.0	99.8	154.4	190.4	200.5
102.5°	80.7	112.2	162.3	197.2	207.7
105°	95.2	122.0	170.9	204.3	216.3
107.5°	111.0	134.7	181.8	214.0	223.4
110°	127.5	148.1	192.9	223.6	234.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.0	160.8	204.5	232.9	243.1
115°	162.7	175.0	216.3	244.1	253.1
117.5°	179.6	187.7	227.5	254.4	264.0
120°	196.6	203.1	239.4	266.0	273.9
122.5°	213.5	215.5	250.9	275.6	283.9
125°	229.9	230.5	262.1	286.3	293.8
127.5°	246.5	246.0	272.9	296.0	304.7
130°	262.5	262.7	285.3	306.8	313.9
132.5°	276.9	280.1	295.4	316.9	322.1
135°	294.0	294.6	305.9	326.2	332.5
137.5°	310.0	310.6	317.5	336.7	341.1
140°	323.8	325.5	328.1	346.0	350.5
142.5°	339.1	338.9	340.3	354.8	359.2
145°	354.0	353.8	354.9	362.7	367.9
147.5°	366.3	367.3	368.0	372.2	372.5
150°	380.1	379.8	381.2	381.2	382.1
152.5°	391.5	392.2	392.6	393.6	392.2
155°	403.2	403.2	403.6	405.0	403.2
157.5°	413.9	413.2	413.6	415.0	412.5
160°	423.2	422.1	422.4	423.9	422.1
162.5°	431.3	430.6	430.6	432.4	430.3
165°	438.5	437.7	438.1	439.5	437.4
167.5°	444.9	443.4	443.4	445.6	443.4
170°	449.8	448.4	448.4	450.5	448.1
172.5°	453.4	452.0	452.0	454.1	452.0
175°	455.9	454.5	454.5	456.6	454.1
177.5°	457.7	456.2	455.9	458.0	455.5
180°	456.9	456.9	456.9	456.9	456.9

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