

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: P1027539

Luminaire Tested: S125DIP-B1270D1090UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027539
REPORT IS A COMBINATION OF REPORTS P1001547 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB30-4F0-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

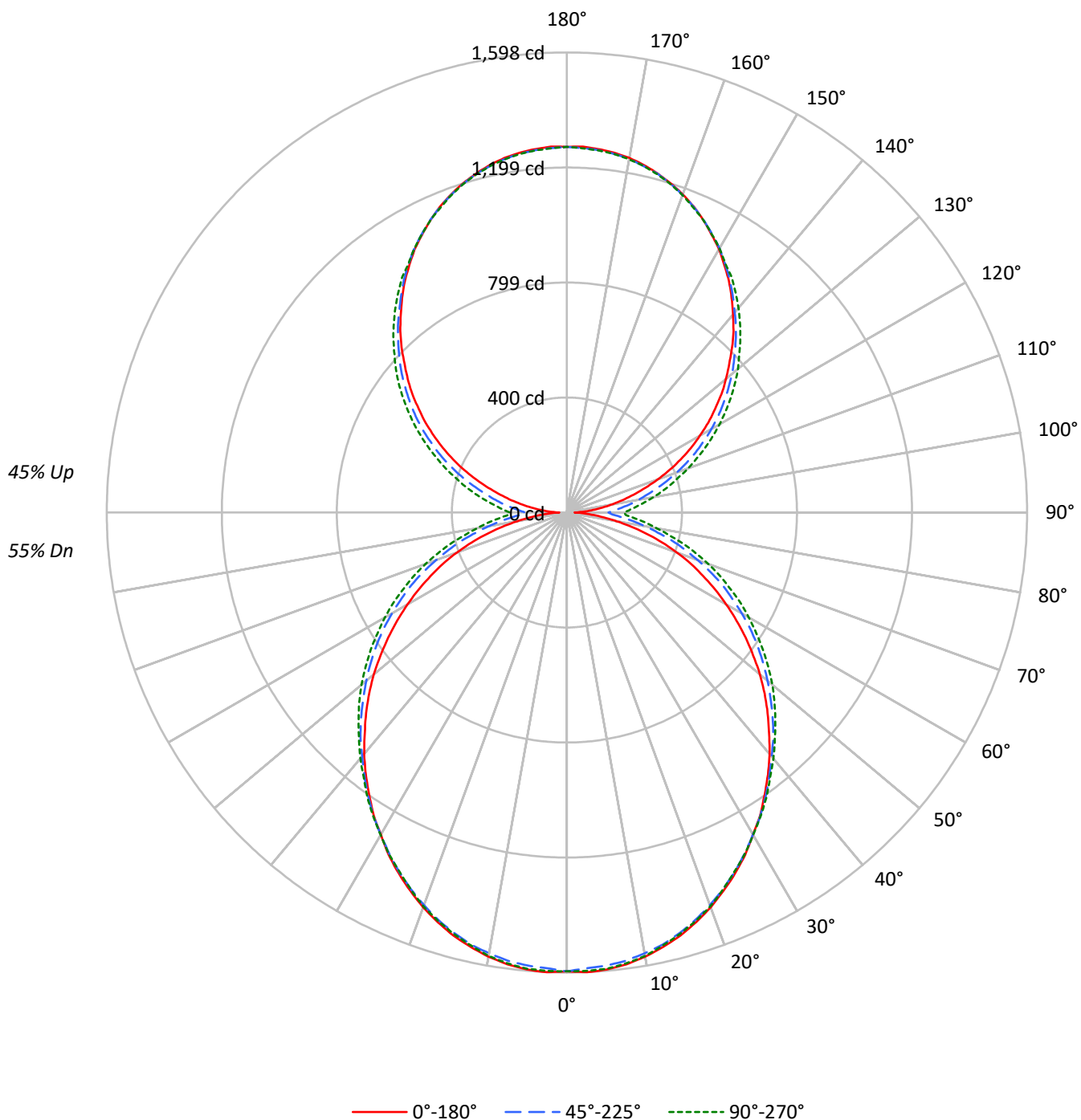
Lumens per Lamp: N/A
Luminaire Lumens: 8484.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	98	93	89	85	91	87	83	80	74	71	69	63	61	59	52	51	49
2	89	81	75	69	82	75	70	65	65	60	56	55	51	49	45	43	41
3	81	71	63	57	75	66	59	54	57	51	47	48	44	41	40	37	35
4	74	63	54	48	68	58	51	45	50	44	40	43	38	35	36	32	30
5	68	56	47	41	63	52	44	39	45	39	34	38	34	30	32	28	26
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22
7	58	45	37	31	53	42	35	29	37	31	26	31	27	23	26	23	20
8	54	41	33	27	50	38	31	26	33	27	23	29	24	21	24	21	18
9	50	37	30	24	46	35	28	23	31	25	21	26	22	18	22	19	16
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	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	1.8
10°-20°	428.1	5.0
20°-30°	636.6	7.5
30°-40°	754.0	8.9
40°-50°	779.5	9.2
50°-60°	718.0	8.5
60°-70°	580.5	6.8
70°-80°	388.4	4.6
80°-90°	202.7	2.4
90°-100°	197.5	2.3
100°-110°	334.3	3.9
110°-120°	481.4	5.7
120°-130°	591.8	7.0
130°-140°	641.6	7.6
140°-150°	618.1	7.3
150°-160°	516.9	6.1
160°-170°	343.6	4.0
170°-180°	120.2	1.4
0°-30°	1215.5	14.3
0°-40°	1969.5	23.2
0°-60°	3467.0	40.9
0°-90°	4638.6	54.7
90°-120°	1013.2	11.9
90°-150°	2864.7	33.8
90°-180°	3845.0	45.3
0°-180°	8484.0	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	84	144	185	199	22
95°	85	127	190	231	244	83
105°	240	269	322	359	373	255
115°	435	450	493	520	528	431
125°	628	632	665	688	694	562
135°	812	816	828	848	852	626
145°	981	984	986	994	998	613
155°	1121	1121	1122	1126	1121	516
165°	1219	1217	1218	1222	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

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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°	26.0	83.9	143.9	184.9	198.7
92.5°	51.6	101.8	165.4	206.6	219.6
95°	84.6	127.1	190.2	231.4	244.4
97.5°	117.5	156.0	221.5	260.2	272.2
100°	155.6	188.4	251.2	292.9	304.3
102.5°	196.5	231.1	284.5	325.7	338.0
105°	239.5	269.4	322.1	359.4	373.2
107.5°	286.3	313.2	363.4	397.6	407.0
110°	335.1	358.9	405.5	438.2	448.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	386.5	402.6	448.8	477.8	486.8
115°	435.4	450.3	492.9	520.1	528.4
117.5°	485.2	494.0	535.1	562.6	569.6
120°	532.7	542.3	579.2	605.8	611.3
122.5°	582.5	585.1	622.4	646.5	652.9
125°	628.0	632.4	664.6	687.6	694.4
127.5°	676.9	678.2	705.8	728.2	735.7
130°	721.3	724.7	748.6	769.5	775.3
132.5°	764.2	773.1	787.7	808.7	812.0
135°	811.7	816.1	828.0	848.3	852.1
137.5°	856.2	860.6	868.8	888.6	889.8
140°	897.2	902.1	906.6	925.7	927.1
142.5°	939.7	942.0	946.0	961.1	962.3
145°	981.2	983.5	986.5	994.3	997.6
147.5°	1018.1	1021.1	1023.1	1029.1	1024.3
150°	1056.7	1055.7	1059.7	1059.7	1059.3
152.5°	1088.3	1090.3	1091.3	1094.2	1090.3
155°	1120.9	1120.9	1121.9	1125.9	1120.9
157.5°	1150.6	1148.6	1149.6	1153.6	1146.6
160°	1176.3	1173.3	1174.3	1178.3	1173.3
162.5°	1199.0	1197.1	1197.1	1202.0	1196.1
165°	1218.8	1216.8	1217.8	1221.8	1215.8
167.5°	1236.6	1232.6	1232.6	1238.6	1232.6
170°	1250.4	1246.5	1246.5	1252.4	1245.5
172.5°	1260.3	1256.4	1256.4	1262.3	1256.4
175°	1267.2	1263.3	1263.3	1269.2	1262.3
177.5°	1272.2	1268.2	1267.2	1273.2	1266.2
180°	1270.2	1270.2	1270.2	1270.2	1270.2

(END OF REPORT)