

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: P1011255

Luminaire Tested: S123DIP-B1165D1025UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011255
REPORT IS A COMBINATION OF REPORTS P989351 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1025UB30-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

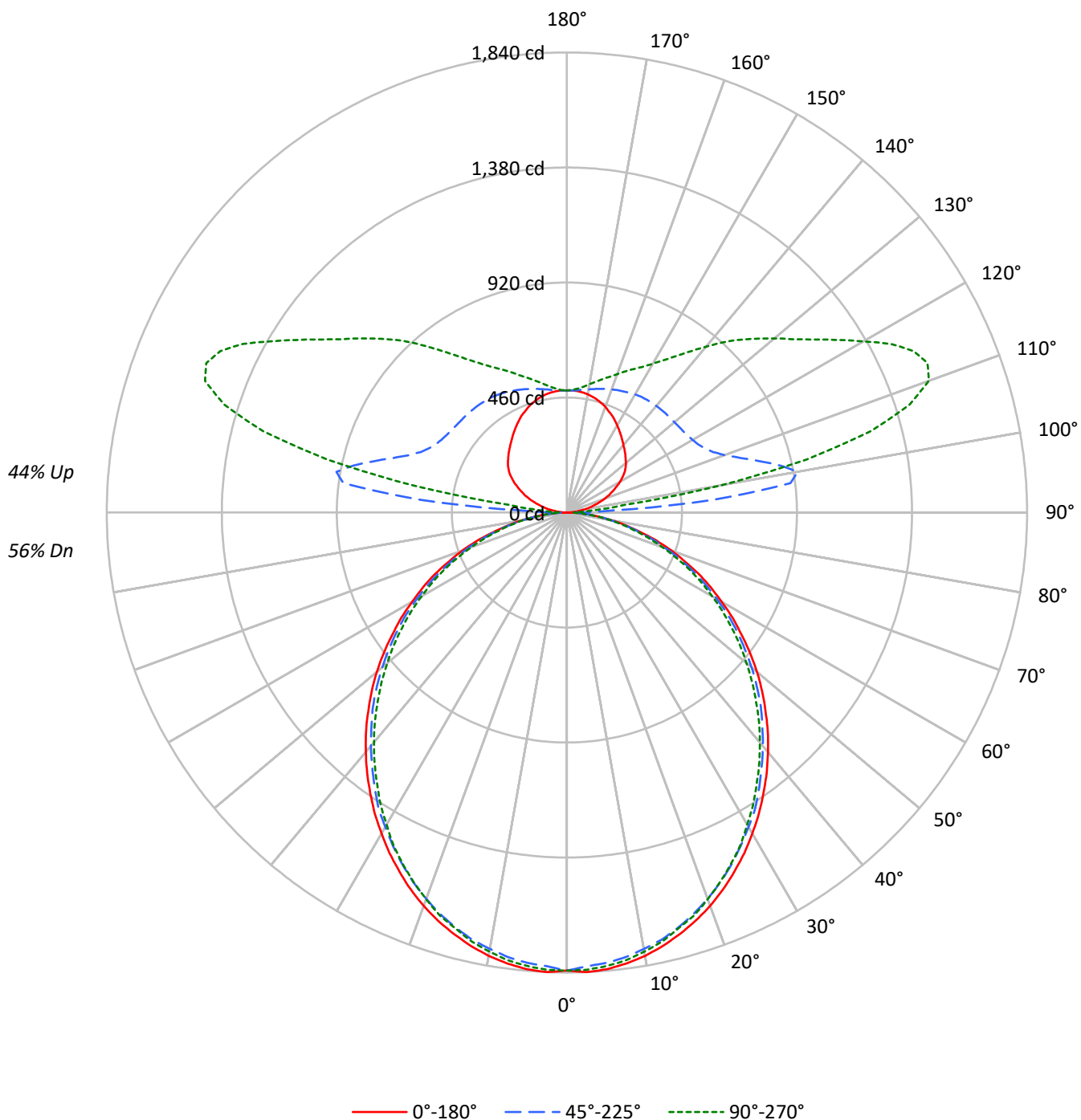
Lumens per Lamp: N/A
Luminaire Lumens: 8451.6 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	53	52
2	90	83	76	71	84	77	72	67	67	63	59	57	54	51	48	46	44
3	82	73	65	59	76	68	61	56	59	54	50	50	47	43	43	40	37
4	75	64	56	50	70	60	53	47	52	47	42	45	41	37	38	35	32
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	28	25
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18
10	48	35	28	23	44	33	27	22	30	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19719	19719	19719
5°	19769	19039	19011
10°	19593	18395	18206
15°	19321	17724	17330
20°	19008	16981	16460
25°	18604	16196	15531
30°	18162	15383	14554
35°	17699	14553	13583
40°	17214	13682	12629
45°	16681	12833	11630
50°	16138	11887	10629
55°	15441	10901	9615
60°	14725	9813	8534
65°	14052	8636	7407
70°	13081	7331	6093
75°	11686	5806	4730
80°	10092	4080	3345
85°	7867	2194	1676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16681 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	2.0
10°-20°	487.7	5.8
20°-30°	720.3	8.5
30°-40°	841.2	10.0
40°-50°	845.7	10.0
50°-60°	742.9	8.8
60°-70°	553.3	6.5
70°-80°	314.9	3.7
80°-90°	92.2	1.1
90°-100°	277.4	3.3
100°-110°	775.4	9.2
110°-120°	756.1	8.9
120°-130°	602.1	7.1
130°-140°	475.2	5.6
140°-150°	354.6	4.2
150°-160°	247.4	2.9
160°-170°	145.3	1.7
170°-180°	47.3	0.6
0°-30°	1380.7	16.3
0°-40°	2221.8	26.3
0°-60°	3810.4	45.1
0°-90°	4770.7	56.4
90°-120°	1809.0	21.4
90°-150°	3240.9	38.3
90°-180°	3681.0	43.6
0°-180°	8451.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1834	1826	1808	1824	1821	174
15°	1745	1739	1719	1731	1722	492
25°	1585	1575	1555	1556	1552	730
35°	1370	1361	1341	1331	1323	857
45°	1123	1117	1096	1078	1070	867
55°	852	851	830	813	805	763
65°	581	573	558	545	540	573
75°	307	301	296	288	284	328
85°	82	79	79	76	76	88
90°	2	12	25	28	29	8
95°	34	109	586	171	115	36
105°	115	170	795	1389	1257	122
115°	203	252	608	1333	1529	201
125°	282	332	567	1028	1206	250
135°	330	394	559	846	977	255
145°	376	431	552	694	764	236
155°	428	462	535	608	634	197
165°	467	481	512	543	552	132
175°	487	488	491	498	497	46
180°	488	488	488	488	488	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1832.0	1832.0	1832.0	1832.0	1832.0
2.5°	1839.9	1833.6	1816.3	1832.0	1830.5
5°	1833.6	1825.7	1808.4	1824.2	1821.0
7.5°	1819.4	1811.6	1794.2	1808.4	1806.8
10°	1800.5	1792.7	1772.2	1786.4	1783.2
12.5°	1775.3	1769.0	1750.1	1759.6	1758.0
15°	1745.4	1739.1	1718.6	1731.2	1721.8
17.5°	1712.3	1704.4	1684.0	1693.4	1690.3
20°	1674.5	1665.1	1644.6	1650.9	1646.2
22.5°	1632.0	1622.5	1602.1	1606.8	1600.5
25°	1584.7	1575.3	1554.8	1556.4	1551.6
27.5°	1535.9	1526.4	1504.4	1506.0	1501.2
30°	1482.3	1474.5	1452.4	1452.4	1441.4
32.5°	1428.8	1417.7	1402.0	1391.0	1386.2
35°	1370.5	1361.0	1340.6	1331.1	1323.2
37.5°	1312.2	1299.6	1279.1	1268.1	1263.4
40°	1250.8	1241.3	1219.3	1206.7	1200.4
42.5°	1189.3	1178.3	1156.3	1143.6	1137.3
45°	1123.2	1116.9	1096.4	1077.5	1069.6
47.5°	1058.6	1049.1	1030.2	1011.3	1005.0
50°	992.4	984.5	964.1	946.7	937.3
52.5°	923.1	918.4	896.3	882.2	872.7
55°	852.2	850.6	830.2	812.8	805.0
57.5°	786.1	779.8	764.0	748.3	738.8
60°	713.6	712.0	693.1	678.9	671.1
62.5°	649.0	644.3	625.4	611.2	606.5
65°	581.3	573.4	557.6	545.0	540.3
67.5°	508.8	502.5	489.9	478.9	472.6
70°	444.2	434.8	425.3	414.3	406.4
72.5°	376.5	370.2	359.2	349.7	346.6
75°	307.2	300.9	296.2	288.3	283.5
77.5°	245.7	242.6	236.3	230.0	230.0
80°	185.9	181.2	178.0	176.4	176.4
82.5°	127.6	127.6	127.6	124.4	122.9
85°	81.9	78.8	78.8	75.6	75.6
87.5°	41.0	36.2	34.7	33.1	33.1
90°	2.0	11.9	24.7	27.7	28.7
92.5°	14.8	59.3	183.8	62.8	52.4
95°	33.6	109.2	586.0	171.0	114.6
97.5°	53.4	125.0	901.3	429.9	235.2
100°	73.1	137.8	935.9	899.4	619.6
102.5°	93.9	152.7	871.6	1204.2	981.3
105°	114.6	169.5	794.6	1389.4	1257.1
107.5°	136.4	189.2	726.4	1471.1	1436.9
110°	160.1	209.5	670.0	1473.5	1539.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.8	230.8	632.5	1417.6	1560.5
115°	202.6	252.5	607.8	1332.6	1528.8
117.5°	223.3	273.2	591.0	1241.8	1459.7
120°	245.1	294.0	580.1	1155.8	1368.7
122.5°	263.9	313.8	573.2	1088.0	1283.8
125°	281.7	332.5	567.3	1027.8	1205.7
127.5°	295.5	350.4	564.3	978.4	1138.5
130°	308.3	366.2	561.3	932.9	1083.1
132.5°	318.2	380.5	560.3	890.4	1028.8
135°	330.1	393.8	559.4	846.4	977.4
137.5°	341.0	404.6	557.4	804.9	923.0
140°	351.8	414.6	556.4	764.4	865.7
142.5°	363.7	423.4	554.4	727.4	812.4
145°	376.5	431.4	552.4	694.2	763.9
147.5°	389.4	439.8	549.5	668.6	722.4
150°	402.2	446.7	545.5	645.8	686.8
152.5°	415.1	454.1	540.6	626.1	657.2
155°	427.9	461.5	534.6	607.8	633.5
157.5°	437.8	468.0	529.7	590.0	610.7
160°	449.7	473.4	523.8	573.7	589.0
162.5°	458.6	477.4	517.8	558.3	569.2
165°	467.4	480.8	511.9	543.0	552.4
167.5°	474.4	483.8	506.0	529.7	535.6
170°	480.3	485.2	500.1	517.8	520.8
172.5°	484.2	486.7	495.1	507.5	507.0
175°	487.2	487.7	491.2	498.1	497.1
177.5°	489.2	488.2	488.2	492.2	490.2
180°	488.2	488.2	488.2	488.2	488.2

(END OF REPORT)