

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: P1011300

Luminaire Tested: S123DIP-B1165D1195UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011300
REPORT IS A COMBINATION OF REPORTS P989411 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB30-4F0-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

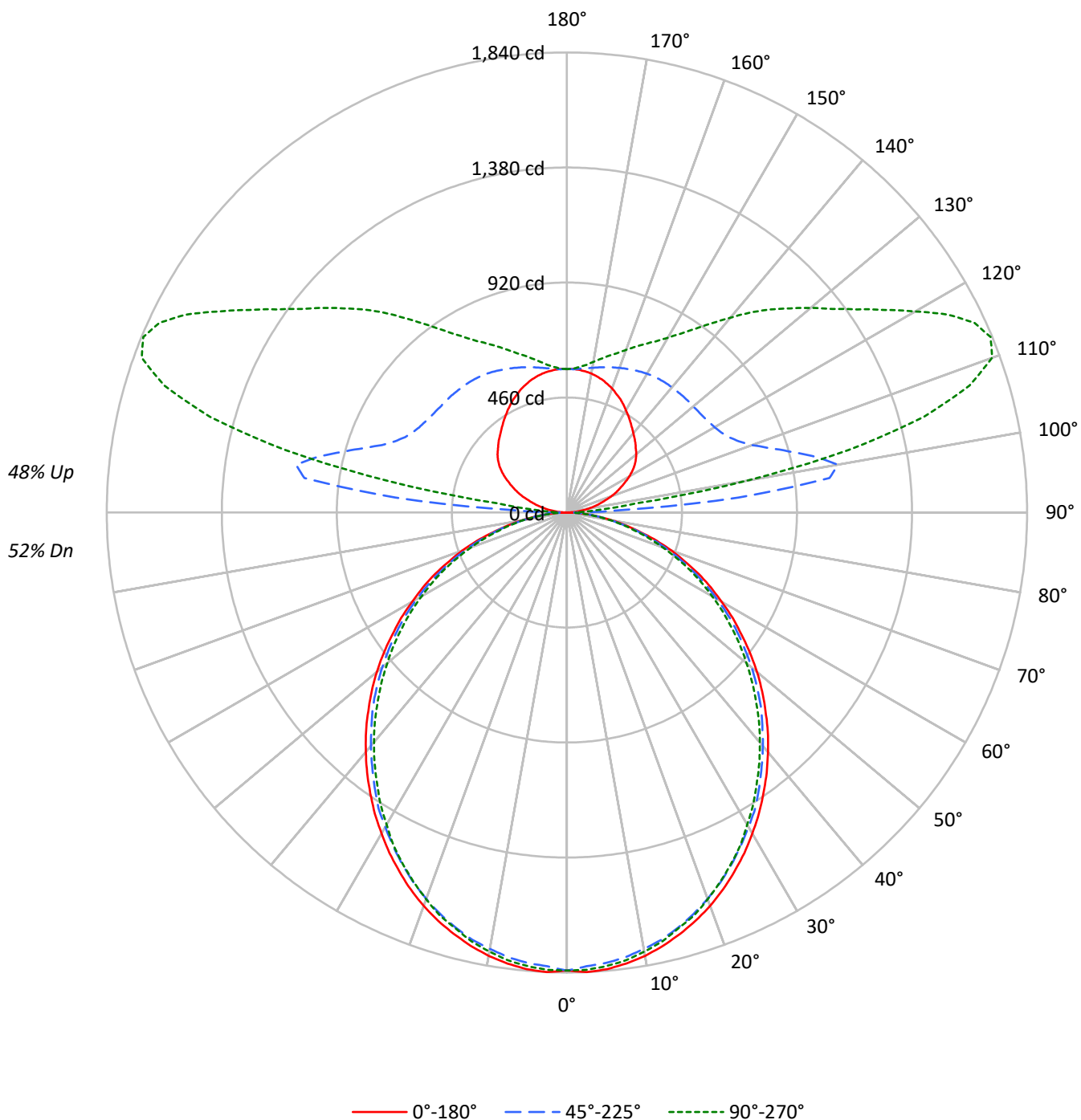
Lumens per Lamp: N/A
Luminaire Lumens: 9096.1 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	85	85	85	71	71	71	58	58	58
1	98	94	90	86	91	87	84	81	74	72	69	62	61	59	52	50	49
2	89	82	76	71	83	76	71	66	65	61	57	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	36	36	33	30
5	69	57	49	43	63	53	46	40	46	40	35	39	34	31	32	29	26
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	18
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

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	1.9
10°-20°	487.7	5.4
20°-30°	720.3	7.9
30°-40°	841.2	9.2
40°-50°	845.7	9.3
50°-60°	742.9	8.2
60°-70°	553.3	6.1
70°-80°	314.9	3.5
80°-90°	92.7	1.0
90°-100°	326.0	3.6
100°-110°	911.1	10.0
110°-120°	888.4	9.8
120°-130°	707.4	7.8
130°-140°	558.4	6.1
140°-150°	416.6	4.6
150°-160°	290.6	3.2
160°-170°	170.7	1.9
170°-180°	55.5	0.6
0°-30°	1380.7	15.2
0°-40°	2221.8	24.4
0°-60°	3810.4	41.9
0°-90°	4771.2	52.5
90°-120°	2125.5	23.4
90°-150°	3807.9	41.9
90°-180°	4325.0	47.5
0°-180°	9096.1	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	14	29	33	34	9
95°	40	128	689	201	135	42
105°	135	199	934	1633	1477	143
115°	238	297	714	1566	1796	236
125°	331	391	666	1208	1417	294
135°	388	463	657	995	1148	300
145°	442	507	649	816	898	277
155°	503	542	628	714	744	231
165°	549	565	602	638	649	155
175°	572	573	577	585	584	54
180°	574	574	574	574	574	

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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°	2.3	14.0	29.0	32.6	33.7
92.5°	17.4	69.6	216.0	73.8	61.5
95°	39.5	128.4	688.6	200.9	134.7
97.5°	62.7	146.9	1059.0	505.1	276.4
100°	85.9	162.0	1099.6	1056.6	728.1
102.5°	110.3	179.4	1024.2	1414.9	1153.0
105°	134.7	199.1	933.6	1632.6	1477.0
107.5°	160.2	222.4	853.5	1728.4	1688.3
110°	188.1	246.2	787.3	1731.4	1809.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.7	271.2	743.2	1665.7	1833.5
115°	238.0	296.7	714.1	1565.8	1796.3
117.5°	262.4	321.0	694.4	1459.0	1715.1
120°	288.0	345.4	681.6	1358.0	1608.2
122.5°	310.0	368.6	673.5	1278.4	1508.4
125°	330.9	390.8	666.5	1207.6	1416.6
127.5°	347.2	411.6	663.0	1149.6	1337.7
130°	362.3	430.2	659.5	1096.2	1272.6
132.5°	373.9	447.0	658.4	1046.2	1208.8
135°	387.8	462.8	657.2	994.6	1148.4
137.5°	400.6	475.5	654.9	945.8	1084.5
140°	413.4	487.1	653.7	898.2	1017.2
142.5°	427.3	497.6	651.4	854.6	954.5
145°	442.4	506.8	649.1	815.8	897.6
147.5°	457.5	516.7	645.6	785.5	848.8
150°	472.6	524.8	641.0	758.8	807.0
152.5°	487.7	533.6	635.2	735.6	772.2
155°	502.8	542.2	628.2	714.2	744.3
157.5°	514.4	549.8	622.4	693.2	717.6
160°	528.3	556.2	615.4	674.0	692.1
162.5°	538.8	560.8	608.5	656.0	668.8
165°	549.2	564.9	601.5	638.1	649.1
167.5°	557.4	568.4	594.5	622.4	629.4
170°	564.3	570.2	587.6	608.4	611.9
172.5°	569.0	571.9	581.7	596.2	595.7
175°	572.5	573.0	577.1	585.2	584.1
177.5°	574.8	573.6	573.6	578.3	575.9
180°	573.6	573.6	573.6	573.6	573.6

(END OF REPORT)