

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: P1011090

Luminaire Tested: S123DIP-B1000D1195UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011090
REPORT IS A COMBINATION OF REPORTS P989120 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB35-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

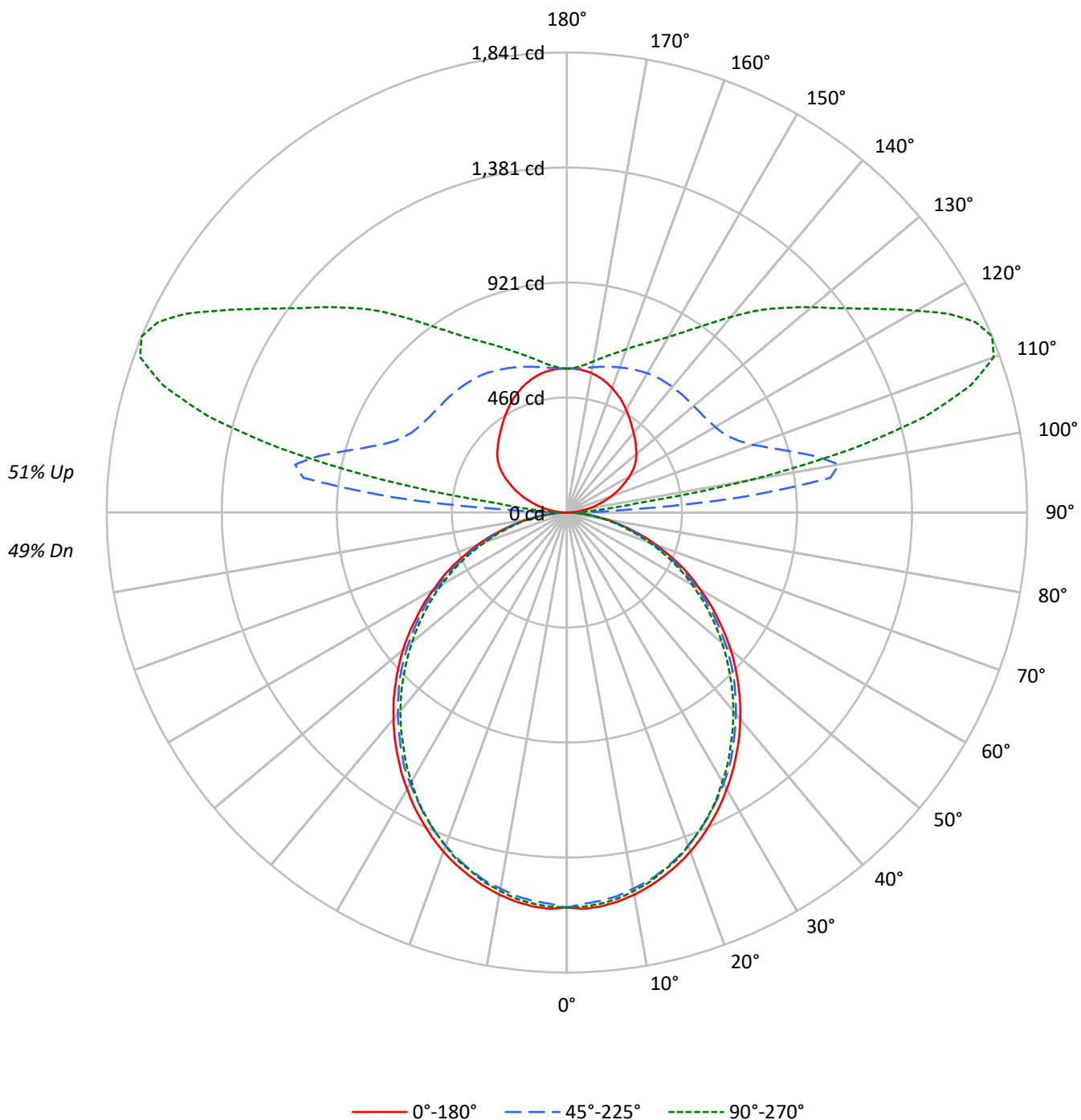
Lumens per Lamp: N/A
Luminaire Lumens: 8459.1 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	97	93	89	86	90	86	83	79	72	70	68	60	58	57	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	38	35	33
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	28
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	24	22
7	58	46	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	24	28	24	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17011	17011	17011
5°	17053	16424	16400
10°	16902	15868	15705
15°	16666	15289	14948
20°	16397	14649	14199
25°	16048	13971	13398
30°	15667	13270	12555
35°	15267	12554	11718
40°	14848	11803	10894
45°	14389	11071	10033
50°	13921	10253	9168
55°	13321	9403	8294
60°	12702	8465	7362
65°	12121	7450	6390
70°	11285	6325	5257
75°	10080	5009	4081
80°	8703	3521	2886
85°	6791	1891	1445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	1.8
10°-20°	420.7	5.0
20°-30°	621.3	7.3
30°-40°	725.6	8.6
40°-50°	729.5	8.6
50°-60°	640.8	7.6
60°-70°	477.3	5.6
70°-80°	271.6	3.2
80°-90°	80.4	1.0
90°-100°	327.3	3.9
100°-110°	914.9	10.8
110°-120°	892.1	10.5
120°-130°	710.4	8.4
130°-140°	560.8	6.6
140°-150°	418.4	4.9
150°-160°	291.8	3.5
160°-170°	171.5	2.0
170°-180°	55.8	0.7
0°-30°	1191.0	14.1
0°-40°	1916.6	22.7
0°-60°	3286.9	38.9
0°-90°	4116.2	48.7
90°-120°	2134.3	25.2
90°-150°	3823.8	45.2
90°-180°	4343.0	51.3
0°-180°	8459.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1582	1575	1560	1574	1571	150
15°	1506	1500	1482	1493	1485	425
25°	1367	1359	1341	1343	1338	630
35°	1182	1174	1156	1148	1142	740
45°	969	963	946	930	923	748
55°	735	734	716	701	694	659
65°	501	495	481	470	466	495
75°	265	260	256	249	245	283
85°	71	68	68	65	65	76
90°	2	14	29	33	34	8
95°	40	129	691	202	135	42
105°	135	200	938	1639	1483	144
115°	239	298	717	1572	1804	237
125°	332	392	669	1213	1422	295
135°	389	465	660	999	1153	301
145°	444	509	652	819	901	278
155°	505	545	631	717	747	232
165°	552	567	604	641	652	155
175°	575	575	580	588	586	55
180°	576	576	576	576	576	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.4	1580.4	1580.4	1580.4	1580.4
2.5°	1587.2	1581.7	1566.8	1580.4	1579.0
5°	1581.7	1574.9	1560.0	1573.6	1570.9
7.5°	1569.5	1562.7	1547.8	1560.0	1558.6
10°	1553.2	1546.4	1528.7	1541.0	1538.2
12.5°	1531.4	1526.0	1509.7	1517.9	1516.5
15°	1505.6	1500.2	1482.5	1493.4	1485.2
17.5°	1477.1	1470.3	1452.6	1460.8	1458.1
20°	1444.5	1436.3	1418.7	1424.1	1420.0
22.5°	1407.8	1399.6	1382.0	1386.1	1380.6
25°	1367.0	1358.9	1341.2	1342.6	1338.5
27.5°	1324.9	1316.7	1297.7	1299.1	1295.0
30°	1278.7	1271.9	1252.9	1252.9	1243.4
32.5°	1232.5	1223.0	1209.4	1199.9	1195.8
35°	1182.2	1174.1	1156.4	1148.2	1141.5
37.5°	1131.9	1121.1	1103.4	1093.9	1089.8
40°	1078.9	1070.8	1051.8	1040.9	1035.5
42.5°	1025.9	1016.4	997.4	986.5	981.1
45°	968.9	963.4	945.8	929.5	922.7
47.5°	913.2	905.0	888.7	872.4	867.0
50°	856.1	849.3	831.6	816.7	808.5
52.5°	796.3	792.2	773.2	761.0	752.8
55°	735.2	733.8	716.1	701.2	694.4
57.5°	678.1	672.6	659.1	645.5	637.3
60°	615.6	614.2	597.9	585.7	578.9
62.5°	559.9	555.8	539.5	527.2	523.2
65°	501.4	494.6	481.0	470.2	466.1
67.5°	438.9	433.5	422.6	413.1	407.7
70°	383.2	375.0	366.9	357.4	350.6
72.5°	324.8	319.3	309.8	301.7	299.0
75°	265.0	259.5	255.5	248.7	244.6
77.5°	212.0	209.3	203.8	198.4	198.4
80°	160.3	156.3	153.6	152.2	152.2
82.5°	110.1	110.1	110.1	107.4	106.0
85°	70.7	67.9	67.9	65.2	65.2
87.5°	35.3	31.3	29.9	28.5	28.5
90°	2.3	14.0	29.2	32.6	33.8
92.5°	17.5	70.0	216.9	74.0	61.8
95°	39.6	128.8	691.4	201.7	135.3
97.5°	63.0	147.5	1063.4	507.2	277.5
100°	86.3	162.6	1104.2	1061.1	731.1
102.5°	110.8	180.1	1028.4	1420.8	1157.9
105°	135.3	200.0	937.5	1639.4	1483.2
107.5°	160.9	223.3	857.0	1735.6	1695.4
110°	188.9	247.2	790.6	1738.5	1816.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.5	272.2	746.2	1672.6	1841.1
115°	239.0	298.0	717.1	1572.4	1803.8
117.5°	263.5	322.4	697.3	1465.1	1722.2
120°	289.2	346.9	684.4	1363.6	1614.9
122.5°	311.3	370.2	676.3	1283.8	1514.7
125°	332.3	392.4	669.3	1212.6	1422.5
127.5°	348.6	413.4	665.8	1154.4	1343.2
130°	363.8	432.0	662.3	1100.8	1278.0
132.5°	375.5	449.0	661.1	1050.6	1213.8
135°	389.4	464.6	660.0	998.7	1153.2
137.5°	402.3	477.5	657.6	949.8	1089.1
140°	415.1	489.2	656.5	901.9	1021.4
142.5°	429.1	499.6	654.1	858.2	958.5
145°	444.3	509.0	651.8	819.1	901.3
147.5°	459.4	518.8	648.3	788.8	852.4
150°	474.6	527.0	643.6	762.0	810.4
152.5°	489.7	535.8	637.8	738.6	775.4
155°	504.9	544.6	630.8	717.1	747.4
157.5°	516.5	552.1	625.0	696.1	720.6
160°	530.5	558.6	618.0	676.9	694.9
162.5°	541.0	563.2	611.0	658.8	671.6
165°	551.5	567.2	604.0	640.7	651.8
167.5°	559.7	570.8	597.0	625.0	632.0
170°	566.7	572.5	590.0	611.0	614.5
172.5°	571.3	574.2	584.2	598.8	598.2
175°	574.8	575.4	579.5	587.7	586.5
177.5°	577.2	576.0	576.0	580.7	578.3
180°	576.0	576.0	576.0	576.0	576.0

(END OF REPORT)