

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: P1011108

Luminaire Tested: S123DIP-B1000D1195UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011108
REPORT IS A COMBINATION OF REPORTS P989138 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB50-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

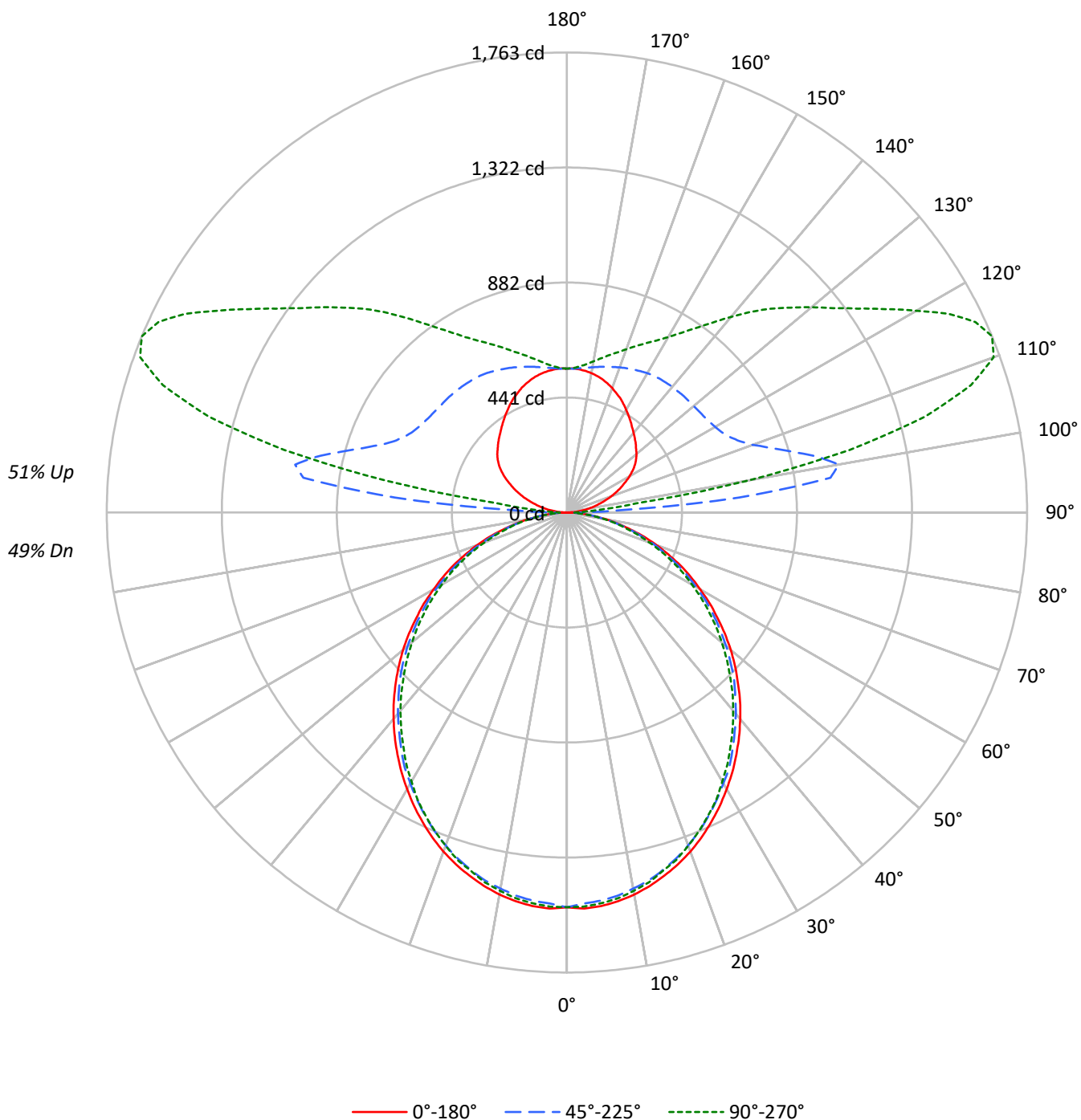
Lumens per Lamp: N/A
Luminaire Lumens: 8098.7 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	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	49		
1	97	93	89	86	90	86	83	79	72	70	68	60	58	57	48	47	46	41		
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39	34		
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	38	35	33	29		
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	28	25		
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22		
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	27	24	22	19		
7	58	46	38	32	53	42	35	30	36	31	26	30	26	23	25	22	19	17		
8	54	41	34	28	49	38	31	27	33	27	24	28	24	20	23	20	17	15		
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	13		
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16283	16283	16283
5°	16323	15721	15697
10°	16178	15189	15033
15°	15953	14635	14309
20°	15696	14022	13592
25°	15362	13373	12824
30°	14997	12702	12018
35°	14614	12016	11216
40°	14214	11298	10428
45°	13773	10596	9603
50°	13326	9815	8776
55°	12751	9001	7939
60°	12158	8103	7047
65°	11603	7132	6116
70°	10802	6054	5032
75°	9647	4793	3906
80°	8333	3369	2763
85°	6493	1810	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13773 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	1.8
10°-20°	402.7	5.0
20°-30°	594.7	7.3
30°-40°	694.6	8.6
40°-50°	698.3	8.6
50°-60°	613.4	7.6
60°-70°	456.8	5.6
70°-80°	260.0	3.2
80°-90°	77.0	1.0
90°-100°	313.4	3.9
100°-110°	876.1	10.8
110°-120°	854.3	10.5
120°-130°	680.2	8.4
130°-140°	536.9	6.6
140°-150°	400.6	4.9
150°-160°	279.5	3.5
160°-170°	164.2	2.0
170°-180°	53.4	0.7
0°-30°	1140.0	14.1
0°-40°	1834.6	22.7
0°-60°	3146.3	38.8
0°-90°	3940.1	48.7
90°-120°	2043.8	25.2
90°-150°	3661.5	45.2
90°-180°	4159.0	51.4
0°-180°	8098.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1514	1508	1493	1506	1504	144
15°	1441	1436	1419	1430	1422	406
25°	1308	1301	1284	1285	1281	603
35°	1132	1124	1107	1099	1093	708
45°	927	922	905	890	883	716
55°	704	702	686	671	665	630
65°	480	474	460	450	446	474
75°	254	248	244	238	234	271
85°	68	65	65	62	62	73
90°	2	13	28	31	32	8
95°	38	123	662	193	130	40
105°	130	192	898	1570	1420	138
115°	229	285	687	1506	1727	227
125°	318	376	641	1161	1362	283
135°	373	445	632	956	1104	288
145°	425	487	624	784	863	267
155°	484	521	604	687	716	222
165°	528	543	578	614	624	149
175°	550	551	555	563	562	52
180°	552	552	552	552	552	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.7	1512.7	1512.7	1512.7	1512.7
2.5°	1519.2	1514.0	1499.7	1512.7	1511.4
5°	1514.0	1507.5	1493.2	1506.2	1503.6
7.5°	1502.3	1495.8	1481.5	1493.2	1491.9
10°	1486.7	1480.2	1463.3	1475.0	1472.4
12.5°	1465.9	1460.7	1445.1	1452.9	1451.6
15°	1441.2	1436.0	1419.1	1429.5	1421.7
17.5°	1413.9	1407.4	1390.5	1398.3	1395.7
20°	1382.7	1374.9	1358.0	1363.2	1359.3
22.5°	1347.6	1339.7	1322.8	1326.7	1321.5
25°	1308.5	1300.7	1283.8	1285.1	1281.2
27.5°	1268.2	1260.4	1242.2	1243.5	1239.6
30°	1224.0	1217.5	1199.3	1199.3	1190.2
32.5°	1179.8	1170.7	1157.6	1148.5	1144.6
35°	1131.6	1123.8	1106.9	1099.1	1092.6
37.5°	1083.5	1073.1	1056.2	1047.1	1043.2
40°	1032.8	1025.0	1006.8	996.4	991.2
42.5°	982.0	972.9	954.7	944.3	939.1
45°	927.4	922.2	905.3	889.7	883.2
47.5°	874.1	866.3	850.7	835.1	829.9
50°	819.5	813.0	796.0	781.7	773.9
52.5°	762.2	758.3	740.1	728.4	720.6
55°	703.7	702.4	685.5	671.2	664.7
57.5°	649.1	643.9	630.9	617.8	610.0
60°	589.2	587.9	572.3	560.6	554.1
62.5°	535.9	532.0	516.4	504.7	500.8
65°	480.0	473.5	460.5	450.1	446.1
67.5°	420.1	414.9	404.5	395.4	390.2
70°	366.8	359.0	351.2	342.1	335.6
72.5°	310.9	305.7	296.6	288.8	286.2
75°	253.6	248.4	244.5	238.0	234.1
77.5°	202.9	200.3	195.1	189.9	189.9
80°	153.5	149.6	147.0	145.7	145.7
82.5°	105.4	105.4	105.4	102.8	101.5
85°	67.6	65.0	65.0	62.4	62.4
87.5°	33.8	29.9	28.6	27.3	27.3
90°	2.2	13.4	27.9	31.2	32.4
92.5°	16.7	67.0	207.7	70.9	59.2
95°	38.0	123.4	662.1	193.2	129.5
97.5°	60.3	141.2	1018.3	485.6	265.7
100°	82.6	155.8	1057.4	1016.0	700.1
102.5°	106.1	172.5	984.8	1360.5	1108.7
105°	129.5	191.5	897.7	1569.8	1420.2
107.5°	154.1	213.8	820.7	1662.0	1623.4
110°	180.9	236.7	757.0	1664.8	1739.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.4	260.7	714.6	1601.6	1763.0
115°	228.9	285.2	686.7	1505.6	1727.3
117.5°	252.3	308.8	667.7	1402.9	1649.1
120°	276.9	332.2	655.4	1305.8	1546.4
122.5°	298.1	354.5	647.6	1229.3	1450.4
125°	318.2	375.7	640.9	1161.2	1362.2
127.5°	333.8	395.8	637.5	1105.4	1286.2
130°	348.4	413.6	634.2	1054.0	1223.7
132.5°	359.5	429.9	633.1	1006.0	1162.3
135°	372.9	445.0	632.0	956.3	1104.3
137.5°	385.2	457.2	629.7	909.4	1042.8
140°	397.5	468.4	628.6	863.6	978.1
142.5°	410.9	478.4	626.4	821.8	917.8
145°	425.4	487.4	624.1	784.4	863.1
147.5°	439.9	496.8	620.8	755.4	816.2
150°	454.4	504.6	616.3	729.6	776.0
152.5°	468.9	513.0	610.7	707.3	742.5
155°	483.5	521.4	604.0	686.7	715.7
157.5°	494.6	528.6	598.5	666.6	690.0
160°	508.0	534.8	591.8	648.2	665.5
162.5°	518.1	539.3	585.1	630.8	643.1
165°	528.1	543.2	578.4	613.5	624.1
167.5°	535.9	546.6	571.7	598.4	605.2
170°	542.6	548.2	565.0	585.0	588.4
172.5°	547.1	549.9	559.4	573.3	572.8
175°	550.5	551.0	554.9	562.7	561.6
177.5°	552.7	551.6	551.6	556.0	553.8
180°	551.6	551.6	551.6	551.6	551.6

(END OF REPORT)