

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: P1011086

Luminaire Tested: S123DIP-B1000D1195UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011086
REPORT IS A COMBINATION OF REPORTS P989116 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-D1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

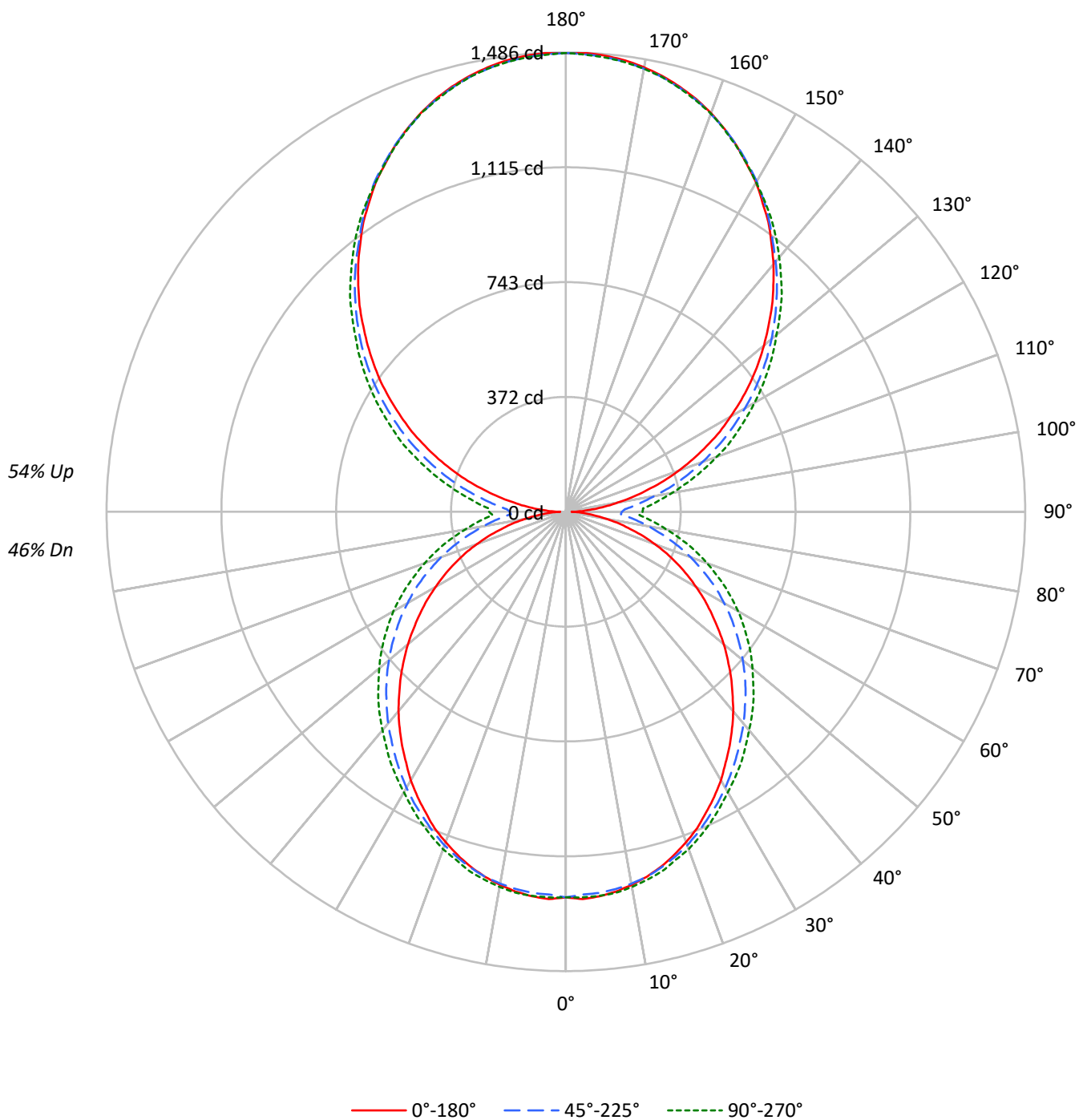
Lumens per Lamp: N/A
Luminaire Lumens: 8308.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43
2	87	79	73	67	79	73	67	62	61	56	53	49	46	44	39	37	35
3	79	69	62	55	72	64	57	52	53	48	44	43	40	37	34	32	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	28	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	23	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15
9	48	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13426	13426	13426
5°	13463	13032	13021
10°	13337	12679	12583
15°	13160	12289	12116
20°	12910	11855	11616
25°	12602	11366	11098
30°	12287	10923	10578
35°	11931	10459	10154
40°	11594	10033	9706
45°	11220	9621	9337
50°	10848	9214	8937
55°	10439	8796	8568
60°	10037	8369	8190
65°	9624	7913	7749
70°	9003	7402	7293
75°	8217	6818	6823
80°	7302	6228	6287
85°	6397	5750	5902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.4
10°-20°	337.3	4.1
20°-30°	504.4	6.1
30°-40°	602.3	7.2
40°-50°	630.1	7.6
50°-60°	591.3	7.1
60°-70°	493.9	5.9
70°-80°	353.2	4.3
80°-90°	213.3	2.6
90°-100°	227.6	2.7
100°-110°	386.3	4.6
110°-120°	557.2	6.7
120°-130°	684.7	8.2
130°-140°	744.6	9.0
140°-150°	719.2	8.7
150°-160°	602.6	7.3
160°-170°	401.2	4.8
170°-180°	140.5	1.7
0°-30°	960.1	11.6
0°-40°	1562.3	18.8
0°-60°	2783.8	33.5
0°-90°	3844.1	46.3
90°-120°	1171.1	14.1
90°-150°	3319.6	40.0
90°-180°	4464.0	53.7
0°-180°	8308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1249	1246	1238	1249	1247	118
15°	1189	1193	1192	1205	1204	335
25°	1073	1087	1091	1109	1109	495
35°	924	946	963	984	989	578
45°	756	788	822	848	859	583
55°	576	621	670	706	717	516
65°	398	451	511	552	565	394
75°	216	280	348	393	409	231
85°	67	134	206	253	266	69
90°	19	97	182	232	248	18
95°	84	145	221	268	281	87
105°	273	308	377	415	430	292
115°	502	522	569	602	612	498
125°	729	733	770	794	799	651
135°	944	949	963	983	987	727
145°	1143	1144	1147	1157	1158	714
155°	1307	1307	1308	1313	1305	602
165°	1424	1420	1420	1427	1419	402
175°	1481	1476	1476	1483	1475	141
180°	1484	1484	1484	1484	1484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1254.1	1250.0	1239.2	1250.0	1248.7
5°	1248.7	1246.0	1237.8	1248.7	1247.3
7.5°	1239.2	1239.2	1231.0	1244.6	1243.3
10°	1225.6	1228.3	1221.5	1235.1	1232.4
12.5°	1209.3	1213.4	1209.3	1221.5	1218.8
15°	1188.9	1193.0	1191.6	1205.2	1203.8
17.5°	1164.4	1172.6	1171.2	1183.5	1180.7
20°	1137.3	1145.4	1148.1	1160.4	1161.7
22.5°	1108.7	1116.9	1121.0	1137.3	1135.9
25°	1073.4	1087.0	1091.1	1108.7	1108.7
27.5°	1039.4	1054.4	1062.5	1077.5	1078.8
30°	1002.8	1020.4	1031.3	1047.6	1047.6
32.5°	962.0	982.4	997.3	1015.0	1019.1
35°	923.9	945.7	963.4	983.7	989.2
37.5°	883.2	907.6	928.0	951.1	955.2
40°	842.4	866.9	894.1	917.2	922.6
42.5°	797.6	828.8	857.4	883.2	891.3
45°	755.5	788.1	822.0	847.9	858.7
47.5°	710.6	747.3	785.4	813.9	822.0
50°	667.1	705.2	747.3	778.6	788.1
52.5°	620.9	661.7	709.3	741.9	754.1
55°	576.1	620.9	669.9	706.5	717.4
57.5°	532.6	578.8	631.8	668.5	680.7
60°	486.4	535.3	591.1	629.1	644.0
62.5°	443.0	493.2	553.0	591.1	604.6
65°	398.1	451.1	510.9	551.7	565.2
67.5°	353.3	409.0	468.8	513.6	524.5
70°	305.7	364.1	429.4	472.8	486.4
72.5°	262.2	320.7	388.6	433.4	447.0
75°	216.0	279.9	347.8	392.7	409.0
77.5°	176.6	240.5	308.4	356.0	368.2
80°	134.5	201.1	271.7	317.9	331.5
82.5°	97.8	165.8	237.8	284.0	297.6
85°	66.6	134.5	206.5	252.7	266.3
87.5°	40.8	108.7	178.0	224.2	237.8
90°	18.9	97.0	181.5	232.3	248.3
92.5°	51.3	116.7	191.7	240.0	249.8
95°	83.7	144.9	220.8	267.5	281.1
97.5°	126.7	181.4	252.3	298.9	311.3
100°	170.8	221.3	289.6	332.5	348.4
102.5°	222.0	263.4	332.8	374.3	386.7
105°	273.3	308.2	377.1	415.2	429.7
107.5°	332.5	362.2	422.6	462.7	473.9
110°	387.2	413.9	470.6	510.6	519.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	445.5	465.6	517.2	557.1	569.3
115°	502.4	522.2	568.7	602.5	612.2
117.5°	561.8	573.9	617.8	650.4	657.7
120°	615.2	629.0	668.1	698.1	705.3
122.5°	672.4	679.8	719.6	746.0	752.0
125°	729.4	732.9	769.9	793.8	798.6
127.5°	783.0	788.6	820.3	840.5	845.3
130°	836.6	844.6	868.3	889.4	889.4
132.5°	888.9	898.2	916.3	934.9	938.6
135°	943.7	949.4	963.1	982.9	987.4
137.5°	993.8	998.4	1011.3	1027.2	1030.5
140°	1045.0	1050.8	1056.0	1075.2	1073.9
142.5°	1092.8	1097.2	1099.6	1116.1	1117.1
145°	1142.9	1143.9	1147.4	1157.1	1157.8
147.5°	1184.7	1189.3	1192.8	1196.9	1195.3
150°	1230.2	1232.5	1234.8	1234.8	1230.5
152.5°	1267.5	1271.0	1272.1	1274.5	1268.6
155°	1307.1	1307.1	1308.3	1312.9	1304.8
157.5°	1340.9	1339.8	1340.9	1345.6	1338.6
160°	1372.4	1370.1	1370.1	1375.9	1371.2
162.5°	1400.4	1396.9	1398.1	1403.9	1395.7
165°	1423.7	1420.2	1420.2	1427.2	1419.1
167.5°	1443.5	1438.9	1440.0	1447.0	1440.0
170°	1459.9	1455.2	1455.2	1463.4	1455.2
172.5°	1472.7	1468.0	1468.0	1475.0	1466.9
175°	1480.9	1476.2	1476.2	1483.2	1475.0
177.5°	1485.5	1480.9	1480.9	1487.8	1479.7
180°	1484.3	1484.3	1484.3	1484.3	1484.3

(END OF REPORT)