

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: P1011095

Luminaire Tested: S123DIP-B1000D1195UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011095
REPORT IS A COMBINATION OF REPORTS P989125 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB40-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

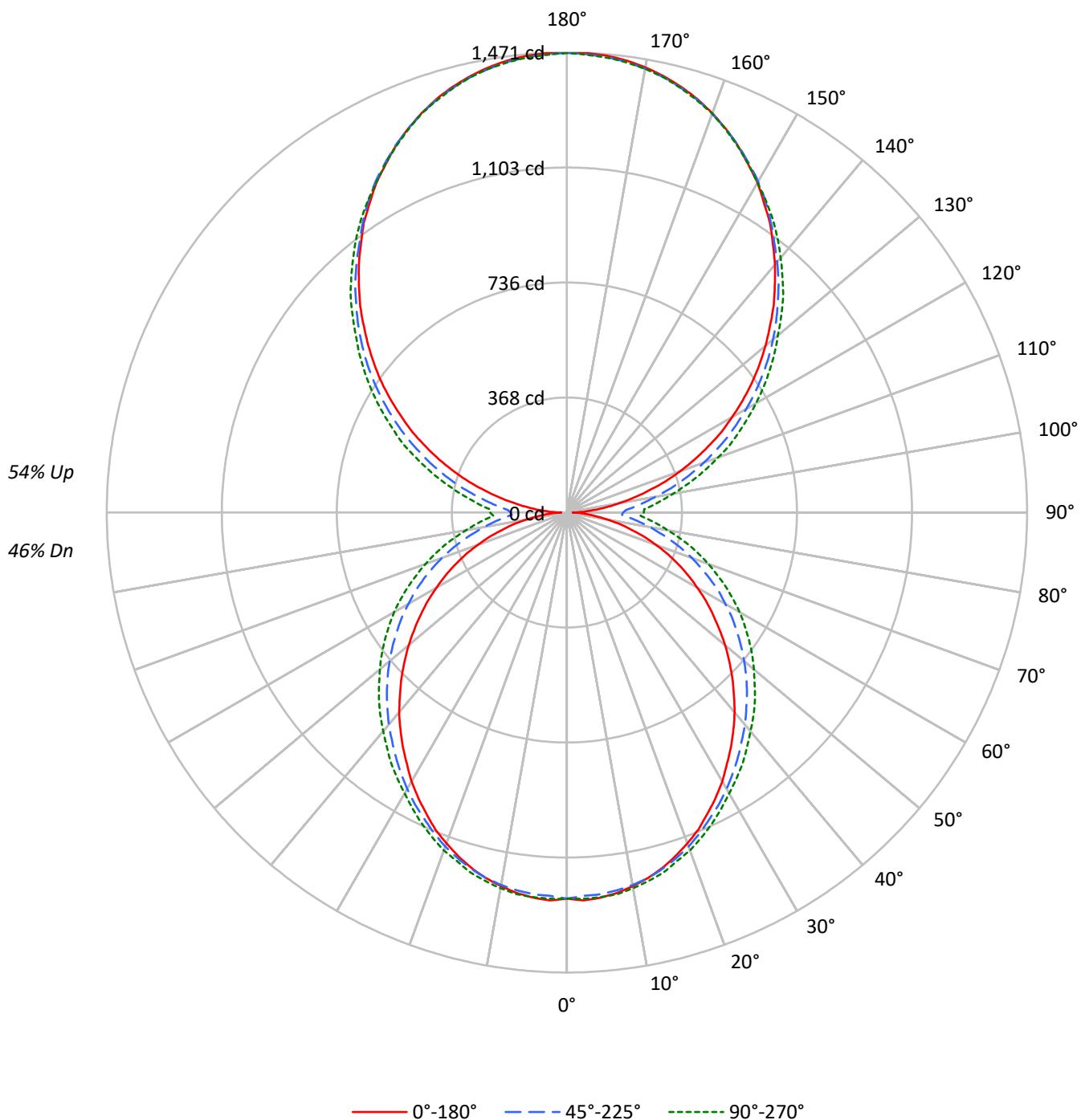
Lumens per Lamp: N/A
Luminaire Lumens: 8225.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	13291	13291	13291
5°	13328	12901	12891
10°	13203	12552	12456
15°	13029	12166	11995
20°	12781	11736	11500
25°	12476	11251	10987
30°	12163	10814	10472
35°	11813	10353	10053
40°	11478	9932	9608
45°	11107	9525	9243
50°	10741	9122	8847
55°	10333	8708	8482
60°	9937	8284	8108
65°	9527	7834	7672
70°	8914	7328	7221
75°	8137	6751	6755
80°	7231	6166	6224
85°	6330	5695	5843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	1.4
10°-20°	333.9	4.1
20°-30°	499.4	6.1
30°-40°	596.2	7.2
40°-50°	623.8	7.6
50°-60°	585.4	7.1
60°-70°	489.0	5.9
70°-80°	349.6	4.3
80°-90°	211.1	2.6
90°-100°	225.3	2.7
100°-110°	382.4	4.6
110°-120°	551.6	6.7
120°-130°	677.9	8.2
130°-140°	737.2	9.0
140°-150°	712.1	8.7
150°-160°	596.6	7.3
160°-170°	397.2	4.8
170°-180°	139.1	1.7
0°-30°	950.4	11.6
0°-40°	1546.6	18.8
0°-60°	2755.9	33.5
0°-90°	3805.6	46.3
90°-120°	1159.3	14.1
90°-150°	3286.5	40.0
90°-180°	4419.0	53.7
0°-180°	8225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1236	1234	1225	1236	1235	117
15°	1177	1181	1180	1193	1192	332
25°	1063	1076	1080	1098	1098	490
35°	915	936	954	974	979	572
45°	748	780	814	839	850	577
55°	570	615	663	700	710	511
65°	394	447	506	546	560	390
75°	214	277	344	389	405	228
85°	66	133	204	250	264	68
90°	19	96	180	230	246	18
95°	83	144	219	265	278	87
105°	270	305	373	411	425	289
115°	497	517	563	596	606	493
125°	722	726	762	786	791	644
135°	934	940	954	973	978	720
145°	1132	1132	1136	1146	1146	706
155°	1294	1294	1295	1300	1292	596
165°	1410	1406	1406	1413	1405	398
175°	1466	1462	1462	1468	1460	139
180°	1470	1470	1470	1470	1470	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1241.6	1237.5	1226.8	1237.5	1236.2
5°	1236.2	1233.5	1225.4	1236.2	1234.8
7.5°	1226.8	1226.8	1218.7	1232.1	1230.8
10°	1213.3	1216.0	1209.3	1222.7	1220.0
12.5°	1197.2	1201.2	1197.2	1209.3	1206.6
15°	1177.0	1181.0	1179.7	1193.1	1191.8
17.5°	1152.8	1160.8	1159.5	1171.6	1168.9
20°	1125.9	1133.9	1136.6	1148.7	1150.1
22.5°	1097.6	1105.7	1109.7	1125.9	1124.5
25°	1062.7	1076.1	1080.1	1097.6	1097.6
27.5°	1029.0	1043.8	1051.9	1066.7	1068.0
30°	992.7	1010.2	1021.0	1037.1	1037.1
32.5°	952.4	972.5	987.3	1004.8	1008.8
35°	914.7	936.2	953.7	973.9	979.3
37.5°	874.3	898.5	918.7	941.6	945.6
40°	834.0	858.2	885.1	908.0	913.3
42.5°	789.6	820.5	848.8	874.3	882.4
45°	747.9	780.2	813.8	839.4	850.1
47.5°	703.5	739.8	777.5	805.7	813.8
50°	660.5	698.1	739.8	770.8	780.2
52.5°	614.7	655.1	702.2	734.4	746.5
55°	570.3	614.7	663.2	699.5	710.2
57.5°	527.3	573.0	625.5	661.8	673.9
60°	481.6	530.0	585.1	622.8	637.6
62.5°	438.5	488.3	547.5	585.1	598.6
65°	394.1	446.6	505.8	546.1	559.6
67.5°	349.7	404.9	464.1	508.5	519.2
70°	302.7	360.5	425.1	468.1	481.6
72.5°	259.6	317.5	384.7	429.1	442.5
75°	213.9	277.1	344.4	388.7	404.9
77.5°	174.9	238.1	305.3	352.4	364.5
80°	133.2	199.1	269.0	314.8	328.2
82.5°	96.8	164.1	235.4	281.1	294.6
85°	65.9	133.2	204.5	250.2	263.6
87.5°	40.4	107.6	176.2	221.9	235.4
90°	18.7	96.1	179.7	230.0	245.8
92.5°	50.7	115.6	189.7	237.5	247.3
95°	82.9	143.5	218.6	264.9	278.3
97.5°	125.5	179.6	249.8	295.9	308.2
100°	169.1	219.1	286.7	329.2	345.0
102.5°	219.7	260.8	329.5	370.6	382.9
105°	270.5	305.1	373.3	410.9	425.4
107.5°	329.2	358.6	418.3	458.1	469.1
110°	383.3	409.8	465.9	505.5	513.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	441.0	461.0	512.1	551.4	563.6
115°	497.3	517.0	563.1	596.5	606.1
117.5°	556.2	568.2	611.5	643.8	651.2
120°	609.2	622.8	661.4	691.2	698.2
122.5°	665.7	673.0	712.4	738.6	744.5
125°	722.0	725.5	762.2	785.9	790.7
127.5°	775.1	780.8	812.1	832.0	836.8
130°	828.2	836.2	859.6	880.6	880.5
132.5°	880.1	889.3	907.2	925.6	929.2
135°	934.3	939.8	953.5	973.2	977.6
137.5°	983.9	988.3	1001.3	1017.0	1020.2
140°	1034.5	1040.3	1045.5	1064.6	1063.2
142.5°	1081.8	1086.3	1088.6	1105.0	1105.9
145°	1131.5	1132.5	1135.9	1145.6	1146.3
147.5°	1172.9	1177.5	1181.0	1185.0	1183.4
150°	1217.9	1220.2	1222.5	1222.5	1218.3
152.5°	1254.8	1258.3	1259.5	1261.8	1256.0
155°	1294.1	1294.1	1295.2	1299.9	1291.8
157.5°	1327.6	1326.4	1327.6	1332.2	1325.3
160°	1358.7	1356.4	1356.4	1362.2	1357.6
162.5°	1386.4	1383.0	1384.1	1389.9	1381.8
165°	1409.5	1406.1	1406.1	1413.0	1404.9
167.5°	1429.2	1424.5	1425.7	1432.6	1425.7
170°	1445.3	1440.7	1440.7	1448.8	1440.7
172.5°	1458.0	1453.4	1453.4	1460.3	1452.2
175°	1466.1	1461.5	1461.5	1468.4	1460.3
177.5°	1470.7	1466.1	1466.1	1473.0	1464.9
180°	1469.6	1469.6	1469.6	1469.6	1469.6

(END OF REPORT)