

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: P1011323

Luminaire Tested: S123DIP-B1165D1195UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011323
REPORT IS A COMBINATION OF REPORTS P989434 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB50-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

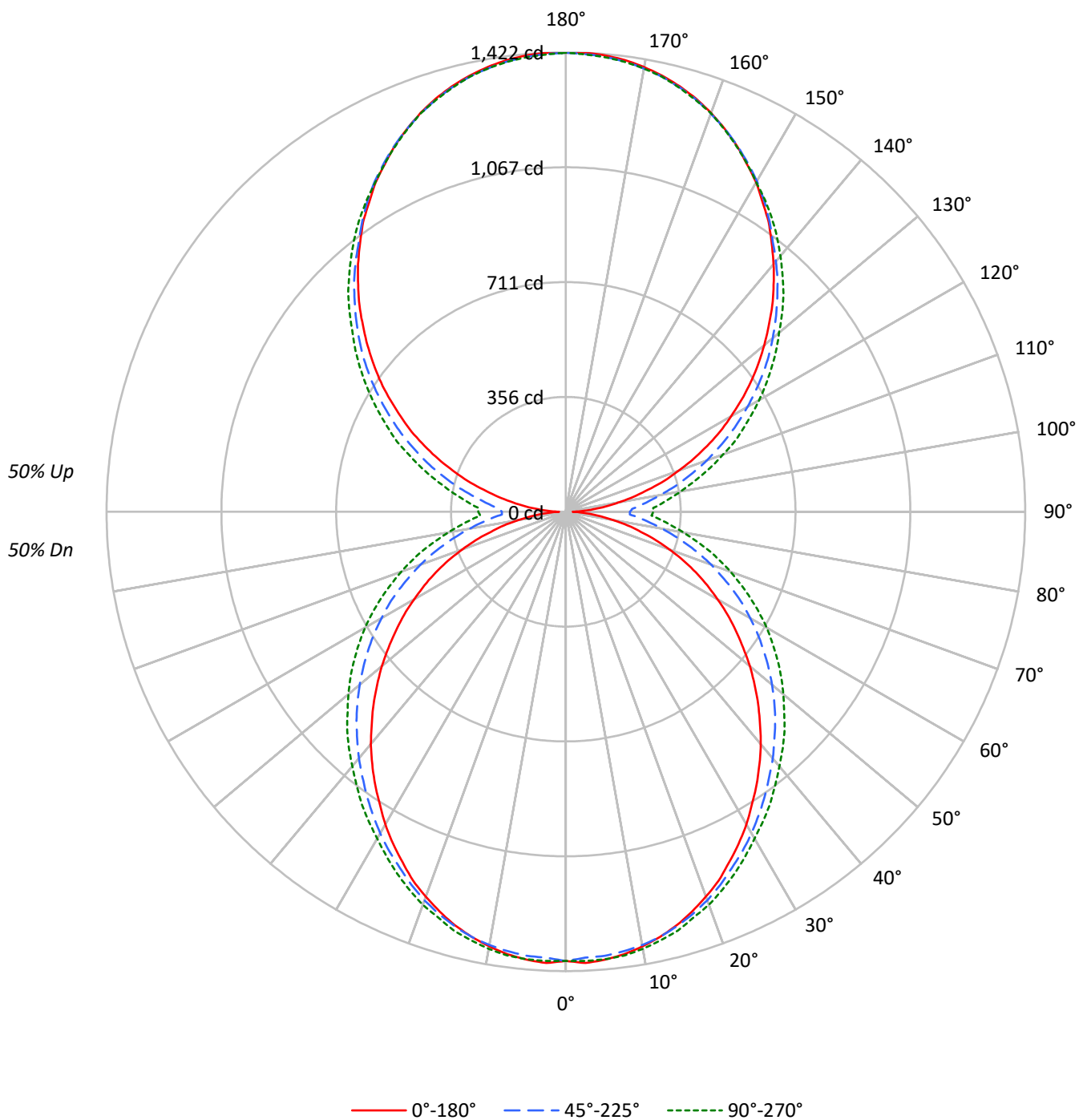
Lumens per Lamp: N/A
Luminaire Lumens: 8614.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	46	45
2	88	80	73	68	80	73	68	63	62	58	54	51	48	45	41	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	45	38	32	38	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	20	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16
9	49	36	29	24	45	34	27	22	29	23	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14966	14966	14966
5°	15008	14527	14515
10°	14867	14134	14026
15°	14670	13699	13507
20°	14391	13215	12949
25°	14048	12670	12372
30°	13696	12176	11792
35°	13302	11658	11319
40°	12924	11183	10819
45°	12506	10726	10409
50°	12093	10272	9962
55°	11636	9805	9551
60°	11188	9329	9130
65°	10728	8820	8638
70°	10036	8250	8130
75°	9160	7602	7606
80°	8143	6943	7009
85°	7127	6410	6581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12506 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.5
10°-20°	376.0	4.4
20°-30°	562.3	6.5
30°-40°	671.4	7.8
40°-50°	702.4	8.2
50°-60°	659.2	7.7
60°-70°	550.6	6.4
70°-80°	393.7	4.6
80°-90°	237.3	2.8
90°-100°	238.7	2.8
100°-110°	385.1	4.5
110°-120°	543.7	6.3
120°-130°	661.4	7.7
130°-140°	715.6	8.3
140°-150°	689.2	8.0
150°-160°	577.0	6.7
160°-170°	384.1	4.5
170°-180°	134.5	1.6
0°-30°	1070.2	12.4
0°-40°	1741.6	20.2
0°-60°	3103.2	36.0
0°-90°	4284.7	49.7
90°-120°	1167.5	13.6
90°-150°	3233.6	37.5
90°-180°	4329.0	50.3
0°-180°	8614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1392	1389	1380	1392	1390	132
15°	1325	1330	1328	1344	1342	373
25°	1197	1212	1216	1236	1236	552
35°	1030	1054	1074	1097	1103	644
45°	842	878	916	945	957	649
55°	642	692	747	788	800	575
65°	444	503	570	615	630	439
75°	241	312	388	438	456	257
85°	74	150	230	282	297	76
90°	21	106	198	254	271	19
95°	83	149	233	284	299	86
105°	263	302	377	420	435	281
115°	482	504	556	593	604	478
125°	699	702	744	771	778	624
135°	904	909	925	948	953	697
145°	1094	1095	1099	1110	1111	683
155°	1252	1252	1253	1257	1249	576
165°	1363	1360	1360	1366	1359	384
175°	1418	1413	1413	1420	1412	135
180°	1421	1421	1421	1421	1421	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1398.0	1393.5	1381.4	1393.5	1392.0
5°	1392.0	1388.9	1379.8	1392.0	1390.4
7.5°	1381.4	1381.4	1372.3	1387.4	1385.9
10°	1366.2	1369.2	1361.7	1376.8	1373.8
12.5°	1348.0	1352.6	1348.0	1361.7	1358.6
15°	1325.3	1329.9	1328.3	1343.5	1342.0
17.5°	1298.1	1307.1	1305.6	1319.3	1316.2
20°	1267.8	1276.9	1279.9	1293.5	1295.0
22.5°	1236.0	1245.0	1249.6	1267.8	1266.2
25°	1196.6	1211.7	1216.3	1236.0	1236.0
27.5°	1158.7	1175.4	1184.5	1201.1	1202.6
30°	1117.8	1137.5	1149.6	1167.8	1167.8
32.5°	1072.4	1095.1	1111.8	1131.4	1136.0
35°	1030.0	1054.2	1073.9	1096.6	1102.7
37.5°	984.5	1011.8	1034.5	1060.3	1064.8
40°	939.1	966.3	996.6	1022.4	1028.4
42.5°	889.1	923.9	955.7	984.5	993.6
45°	842.1	878.5	916.4	945.1	957.3
47.5°	792.2	833.1	875.5	907.3	916.4
50°	743.7	786.1	833.1	867.9	878.5
52.5°	692.2	737.6	790.6	827.0	840.6
55°	642.2	692.2	746.7	787.6	799.7
57.5°	593.7	645.2	704.3	745.2	758.8
60°	542.2	596.8	658.9	701.3	717.9
62.5°	493.8	549.8	616.5	658.9	674.0
65°	443.8	502.9	569.5	614.9	630.1
67.5°	393.8	455.9	522.6	572.5	584.7
70°	340.8	405.9	478.6	527.1	542.2
72.5°	292.3	357.5	433.2	483.2	498.3
75°	240.8	312.0	387.8	437.7	455.9
77.5°	196.9	268.1	343.8	396.8	410.5
80°	150.0	224.2	302.9	354.4	369.6
82.5°	109.1	184.8	265.1	316.6	331.7
85°	74.2	150.0	230.2	281.7	296.9
87.5°	45.4	121.2	198.4	249.9	265.1
90°	20.8	106.2	198.0	254.0	271.3
92.5°	51.7	123.5	205.9	259.2	270.7
95°	82.6	149.4	232.6	284.0	299.2
97.5°	123.4	183.6	261.5	312.5	326.4
100°	165.4	220.6	295.9	343.2	360.5
102.5°	214.2	259.9	335.9	381.7	395.7
105°	263.3	301.9	377.1	419.5	435.3
107.5°	319.9	352.8	419.3	463.6	476.1
110°	371.9	401.5	464.2	508.1	517.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	427.8	450.1	507.6	551.1	564.7
115°	482.1	503.5	555.9	593.3	604.3
117.5°	539.0	552.2	601.5	637.8	646.7
120°	590.0	604.2	648.6	682.4	690.8
122.5°	644.7	652.2	696.8	726.9	734.1
125°	698.9	702.3	744.0	771.4	777.5
127.5°	750.3	755.5	791.2	814.8	820.9
130°	801.6	809.1	836.0	860.4	861.6
132.5°	851.5	860.4	880.9	902.6	907.6
135°	904.0	909.2	924.8	947.5	952.9
137.5°	952.0	956.1	970.0	988.7	992.9
140°	1000.7	1006.3	1012.0	1033.6	1033.4
142.5°	1046.5	1050.6	1052.8	1071.4	1073.4
145°	1094.5	1095.2	1098.6	1109.6	1111.2
147.5°	1134.3	1138.8	1142.1	1146.6	1146.0
150°	1177.9	1180.1	1182.3	1182.3	1178.6
152.5°	1213.6	1216.9	1218.0	1220.3	1214.7
155°	1251.5	1251.5	1252.7	1257.1	1249.3
157.5°	1283.9	1282.8	1283.9	1288.4	1281.7
160°	1314.1	1311.8	1311.8	1317.4	1312.9
162.5°	1340.9	1337.5	1338.6	1344.2	1336.4
165°	1363.2	1359.8	1359.8	1366.5	1358.7
167.5°	1382.2	1377.7	1378.8	1385.5	1378.8
170°	1397.8	1393.3	1393.3	1401.1	1393.3
172.5°	1410.1	1405.6	1405.6	1412.3	1404.5
175°	1417.9	1413.4	1413.4	1420.1	1412.3
177.5°	1422.4	1417.9	1417.9	1424.6	1416.8
180°	1421.2	1421.2	1421.2	1421.2	1421.2

(END OF REPORT)