

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: P1011061

Luminaire Tested: S123DIP-B1000D1025UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011061
REPORT IS A COMBINATION OF REPORTS P989076 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1025UB50-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

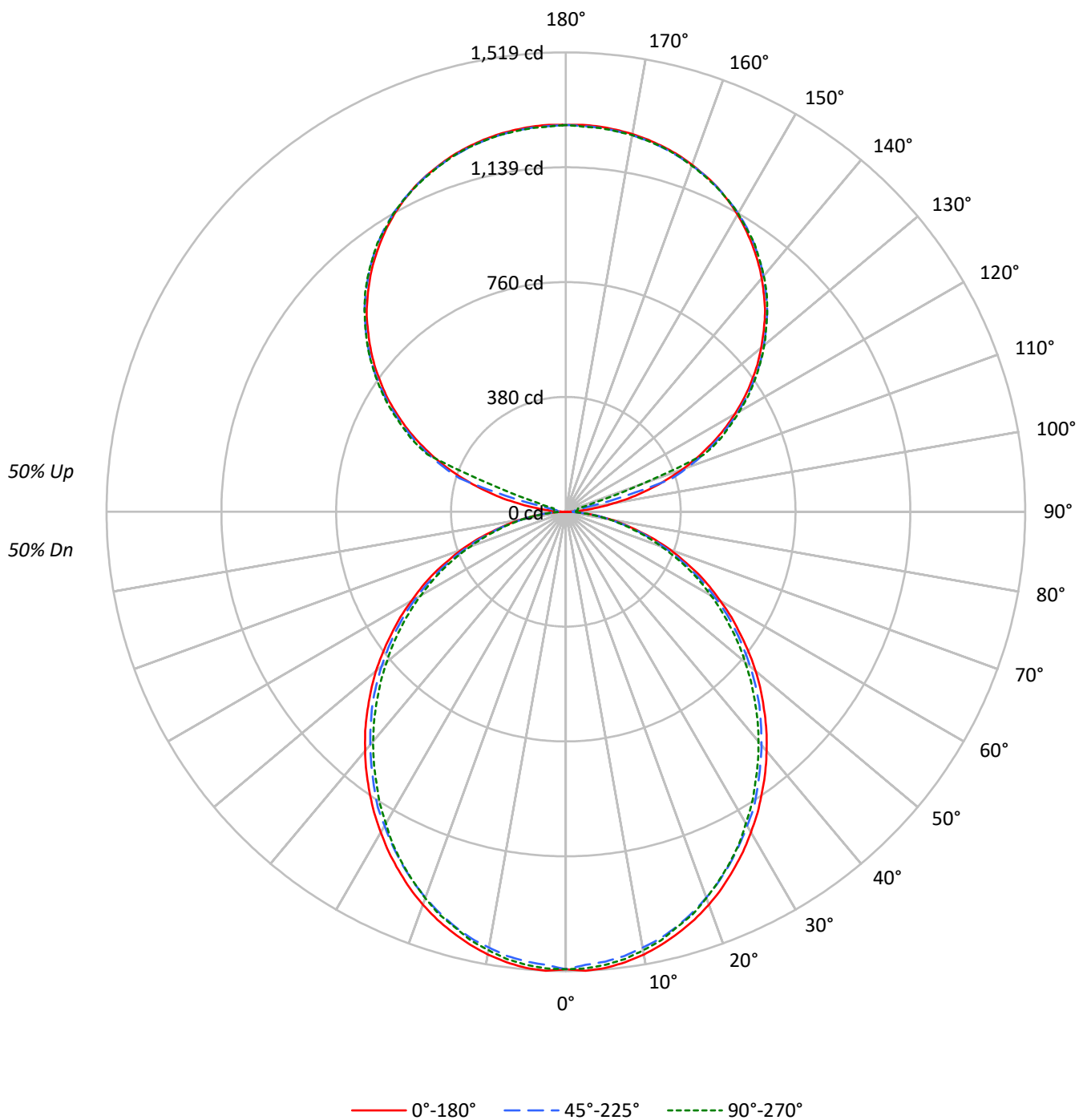
Lumens per Lamp: N/A
Luminaire Lumens: 7838.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40
3	81	72	64	58	75	66	60	55	56	52	48	47	44	41	39	36	34
4	74	63	55	49	68	59	52	46	50	45	41	42	38	35	35	32	29
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	22	20
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	15

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	5.1
20°-30°	594.7	7.6
30°-40°	694.6	8.9
40°-50°	698.3	8.9
50°-60°	613.4	7.8
60°-70°	456.8	5.8
70°-80°	260.0	3.3
80°-90°	76.5	1.0
90°-100°	45.1	0.6
100°-110°	218.0	2.8
110°-120°	534.3	6.8
120°-130°	678.2	8.7
130°-140°	724.6	9.2
140°-150°	677.5	8.6
150°-160°	546.5	7.0
160°-170°	352.7	4.5
170°-180°	121.5	1.6
0°-30°	1140.0	14.5
0°-40°	1834.6	23.4
0°-60°	3146.3	40.1
0°-90°	3939.6	50.3
90°-120°	797.4	10.2
90°-150°	2877.8	36.7
90°-180°	3898.0	49.7
0°-180°	7838.0	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°	1	10	23	27	28	8
95°	58	19	30	36	36	69
105°	283	294	208	40	42	300
115°	531	537	545	555	559	524
125°	749	756	760	762	764	669
135°	932	938	942	944	942	718
145°	1076	1082	1084	1086	1086	673
155°	1185	1183	1184	1188	1183	546
165°	1249	1246	1246	1253	1246	353
175°	1279	1274	1275	1282	1274	122
180°	1279	1279	1279	1279	1279	

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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°	1.0	10.5	22.8	26.6	28.5
92.5°	21.9	16.2	24.7	31.4	32.3
95°	58.0	19.0	29.5	36.1	36.1
97.5°	105.5	78.9	30.4	38.0	39.0
100°	160.6	179.6	31.4	39.0	39.9
102.5°	223.3	235.6	70.3	39.0	40.9
105°	283.1	293.6	208.1	39.9	41.8
107.5°	346.8	355.3	369.6	223.3	98.8
110°	410.4	418.0	428.5	397.1	261.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	471.2	477.9	488.3	496.9	495.0
115°	531.1	536.8	545.3	554.8	558.6
117.5°	590.0	596.6	601.4	609.0	609.9
120°	644.1	652.7	655.5	663.1	663.1
122.5°	699.2	705.9	709.7	714.4	715.4
125°	748.6	756.2	760.0	761.9	763.8
127.5°	798.0	805.6	810.4	813.2	811.3
130°	843.6	851.2	855.0	858.8	856.9
132.5°	887.4	895.0	897.8	901.6	898.8
135°	932.0	937.7	941.5	944.4	941.5
137.5°	970.0	977.6	979.5	984.3	982.4
140°	1008.0	1013.7	1016.6	1020.4	1018.5
142.5°	1043.2	1048.9	1051.7	1054.6	1051.7
145°	1075.5	1082.1	1084.0	1085.9	1085.9
147.5°	1106.8	1111.6	1113.5	1115.4	1110.6
150°	1135.3	1138.2	1140.1	1142.0	1139.1
152.5°	1161.0	1161.9	1162.9	1166.7	1161.9
155°	1184.7	1182.8	1183.8	1188.5	1182.8
157.5°	1203.7	1203.7	1202.8	1208.5	1200.9
160°	1220.8	1219.9	1218.9	1224.6	1218.0
162.5°	1237.0	1234.1	1233.2	1239.8	1234.1
165°	1249.3	1246.5	1245.5	1253.1	1246.5
167.5°	1259.8	1256.0	1256.0	1263.6	1256.0
170°	1268.3	1264.5	1264.5	1272.1	1264.5
172.5°	1274.0	1269.3	1270.2	1277.8	1269.3
175°	1278.8	1274.0	1275.0	1281.6	1274.0
177.5°	1280.7	1275.9	1276.9	1284.5	1275.0
180°	1278.8	1278.8	1278.8	1278.8	1278.8

(END OF REPORT)