

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P644694

Luminaire Tested: OMN4DIP-SR4F0-125D125U830-CLBOOB-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P644694
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2206-689-20)
Test Lab: INNOVATION CENTER
Issue Date: 2/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: OMN4DIP-SR4F0-125D125U830-CLBOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - BATWING LENS - 1250 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

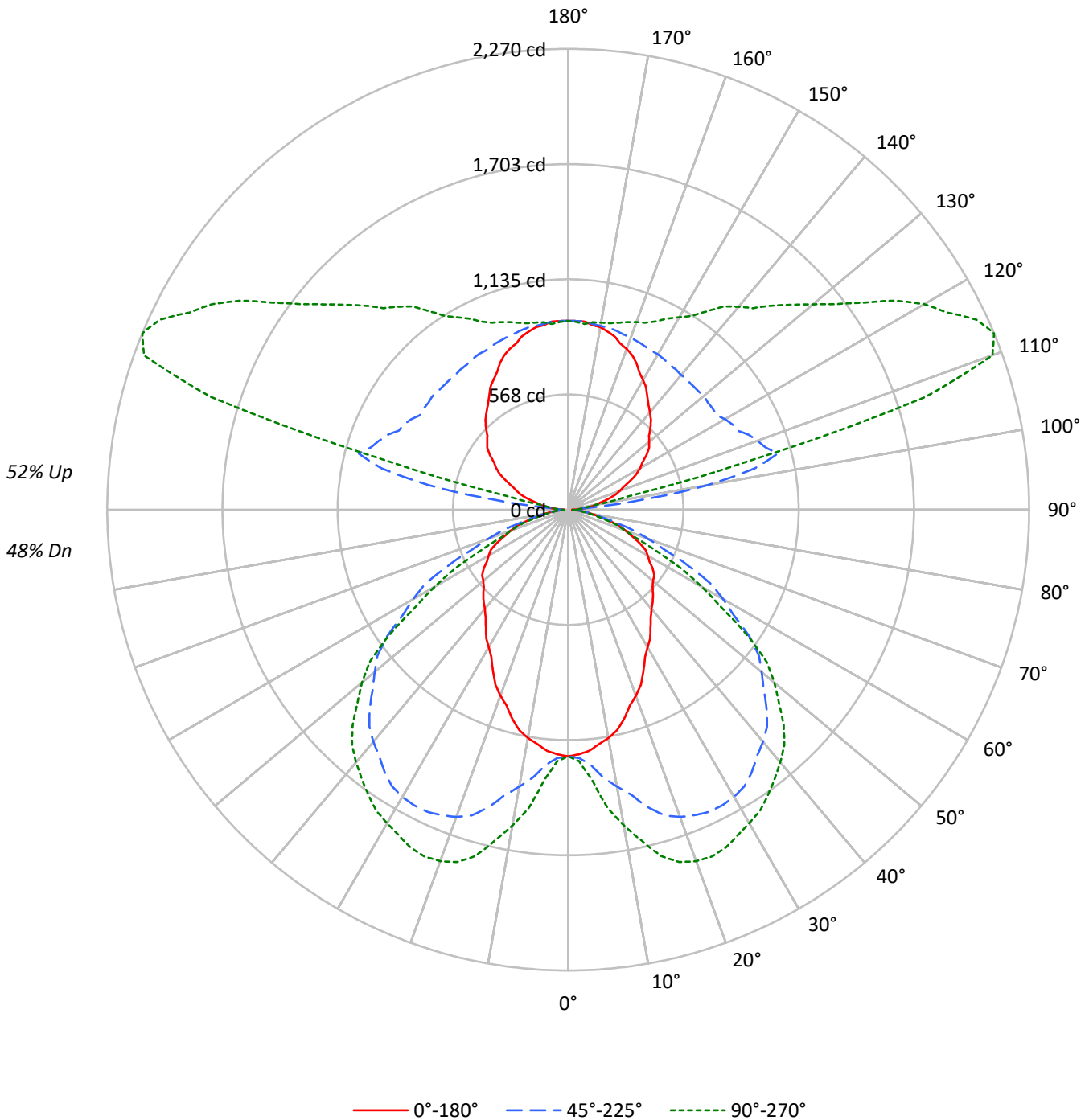
Lumens per Lamp: N/A
Luminaire Lumens: 9698.2 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 1.87 / 1.75
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.2
Input Voltage (V): 120
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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48	48	48	48														
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41	41	41	41	41	41	41														
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34	34	34	34	34	34	34														
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29	29	29	29														
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	31	28	24	24	24	24	24	24	24														
5	68	56	48	42	62	52	45	39	44	38	34	37	32	29	30	27	24	21	21	21	21	21	21	21														
6	62	50	42	36	57	46	39	34	39	34	30	33	29	25	27	24	21	18	18	18	18	18	18	18														
7	57	45	37	31	53	42	35	30	36	30	26	30	26	22	24	21	19	16	16	16	16	16	16	16														
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17	14	14	14	14	14	14	14														
9	49	37	30	24	45	35	28	23	30	24	20	25	21	18	21	17	15	13	13	13	13	13	13	13														
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11	11	11	11	11	11	11														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19617	19617	19617
5°	19326	20425	21616
10°	18715	22699	25896
15°	17805	25362	29519
20°	16749	27673	31654
25°	15604	29247	32719
30°	14592	30449	33240
35°	13923	31077	33805
40°	13460	31445	34244
45°	13483	31549	34260
50°	13697	31230	33287
55°	14317	30621	30224
60°	14599	28468	24545
65°	14789	24936	18029
70°	14139	19610	14006
75°	12689	14629	11809
80°	10767	11557	9456
85°	10467	9429	7855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 34260 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	1.3
10°-20°	414.1	4.3
20°-30°	688.0	7.1
30°-40°	867.9	8.9
40°-50°	927.7	9.6
50°-60°	818.8	8.4
60°-70°	525.5	5.4
70°-80°	233.0	2.4
80°-90°	62.5	0.6
90°-100°	130.3	1.3
100°-110°	825.1	8.5
110°-120°	1114.1	11.5
120°-130°	905.4	9.3
130°-140°	724.8	7.5
140°-150°	571.0	5.9
150°-160°	417.5	4.3
160°-170°	259.3	2.7
170°-180°	88.4	0.9
0°-30°	1226.7	12.6
0°-40°	2094.5	21.6
0°-60°	3841.1	39.6
0°-90°	4662.2	48.1
90°-120°	2069.5	21.3
90°-150°	4270.8	44.0
90°-180°	5036.0	51.9
0°-180°	9698.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1215	1215	1215	1215	1215	
5°	1192	1228	1260	1303	1334	112
15°	1065	1228	1517	1700	1766	298
25°	876	1188	1642	1795	1837	403
35°	706	1085	1577	1679	1715	444
45°	590	928	1382	1467	1500	456
55°	509	730	1088	1093	1074	451
65°	387	489	653	530	472	379
75°	203	226	234	200	189	217
85°	56	48	51	45	42	60
90°	20	26	29	34	29	16
95°	78	107	61	61	70	75
105°	201	296	1067	1356	895	213
115°	336	402	921	1900	2217	334
125°	471	534	868	1507	1778	418
135°	573	636	866	1239	1422	442
145°	679	736	872	1079	1194	426
155°	796	824	889	978	1024	365
165°	883	895	913	936	954	248
175°	930	936	930	924	918	88
180°	930	930	930	930	930	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.0	1215.0	1215.0	1215.0	1215.0
2.5°	1206.0	1223.6	1224.0	1231.0	1239.9
5°	1192.4	1228.3	1260.2	1303.3	1333.7
7.5°	1164.1	1228.2	1330.3	1430.3	1480.0
10°	1141.5	1229.9	1384.5	1518.7	1579.5
12.5°	1112.1	1229.3	1438.8	1600.3	1669.9
15°	1065.2	1228.2	1517.3	1699.7	1766.0
17.5°	1011.0	1223.2	1578.9	1761.7	1819.7
20°	974.8	1218.0	1610.6	1784.3	1842.3
22.5°	934.1	1206.0	1628.7	1795.5	1849.1
25°	875.9	1188.1	1641.7	1795.2	1836.6
27.5°	818.9	1162.5	1642.2	1772.4	1807.8
30°	782.7	1141.8	1633.2	1749.8	1782.9
32.5°	751.0	1119.0	1615.1	1722.7	1758.1
35°	706.4	1084.9	1576.7	1679.2	1715.1
37.5°	668.0	1045.9	1528.1	1627.9	1669.9
40°	638.6	1014.3	1491.9	1591.6	1624.7
42.5°	616.0	980.7	1449.0	1546.2	1575.0
45°	590.5	927.6	1381.7	1467.2	1500.4
47.5°	563.4	872.9	1304.3	1385.0	1406.6
50°	545.3	832.7	1243.3	1316.9	1325.2
52.5°	534.0	790.4	1184.5	1230.9	1232.5
55°	508.6	729.6	1087.8	1093.1	1073.7
57.5°	474.7	658.7	965.2	937.6	891.2
60°	452.1	609.6	881.6	826.4	760.1
62.5°	429.5	562.7	793.4	704.1	626.7
65°	387.1	489.3	652.7	529.9	471.9
67.5°	337.9	408.7	512.6	396.4	357.7
70°	299.5	354.8	415.4	324.3	296.7
72.5°	263.3	300.9	336.2	268.1	253.7
75°	203.4	225.5	234.5	200.4	189.3
77.5°	149.8	150.9	162.8	141.2	135.6
80°	115.8	110.3	124.3	107.2	101.7
82.5°	88.7	81.0	90.4	77.9	74.6
85°	56.5	48.2	50.9	45.1	42.4
87.5°	33.3	27.9	28.3	27.2	23.9
90°	19.8	25.5	28.7	34.4	28.9
92.5°	40.6	39.7	40.4	48.7	47.7
95°	77.9	106.9	60.9	61.3	70.0
97.5°	110.8	186.0	354.7	107.1	90.6
100°	136.6	225.5	698.8	208.8	137.4
102.5°	162.4	258.2	942.2	539.6	294.3
105°	201.1	295.6	1067.4	1355.5	895.1
107.5°	242.7	310.9	1019.4	1971.5	1844.0
110°	268.5	334.4	991.3	2071.5	2223.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.6	362.5	963.3	2013.0	2270.0
115°	335.9	401.8	921.1	1899.7	2217.3
117.5°	378.6	443.9	910.6	1777.1	2103.8
120°	409.1	472.1	891.9	1683.8	2024.2
122.5°	432.5	497.8	866.2	1603.6	1916.6
125°	470.7	533.6	868.5	1506.7	1778.5
127.5°	501.8	568.0	866.8	1393.8	1662.7
130°	520.5	589.1	871.5	1316.3	1573.8
132.5°	539.4	608.0	867.0	1282.5	1494.2
135°	573.3	636.3	865.9	1238.6	1421.7
137.5°	602.6	670.1	865.9	1190.0	1346.8
140°	626.0	688.9	865.9	1161.6	1304.6
142.5°	649.4	707.7	870.5	1128.7	1262.5
145°	678.6	735.9	871.7	1079.1	1193.5
147.5°	713.8	764.1	878.7	1043.4	1131.5
150°	737.2	782.9	883.4	1019.7	1094.0
152.5°	760.6	801.7	883.4	1000.6	1061.3
155°	795.7	824.3	889.3	978.1	1023.8
157.5°	823.7	851.2	896.3	963.7	996.9
160°	842.5	865.3	901.0	954.3	982.9
162.5°	856.5	879.4	905.6	949.4	968.8
165°	883.4	894.9	912.7	936.5	953.6
167.5°	898.6	908.9	918.5	930.4	940.7
170°	912.7	918.4	918.5	930.3	936.1
172.5°	917.3	927.6	923.2	925.7	931.4
175°	930.2	935.9	930.2	924.2	918.5
177.5°	930.2	934.8	930.2	930.1	925.5
180°	930.2	930.2	930.2	930.2	930.2

(END OF REPORT)