

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: P644739

Luminaire Tested: OMN4DIP-SR4F0-125D150U930-FLLOOB-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P644739
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2206-689-19)
Test Lab: INNOVATION CENTER
Issue Date: 2/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: OMN4DIP-SR4F0-125D150U930-FLLOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - FLAT FROSTED LENS - 1250 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

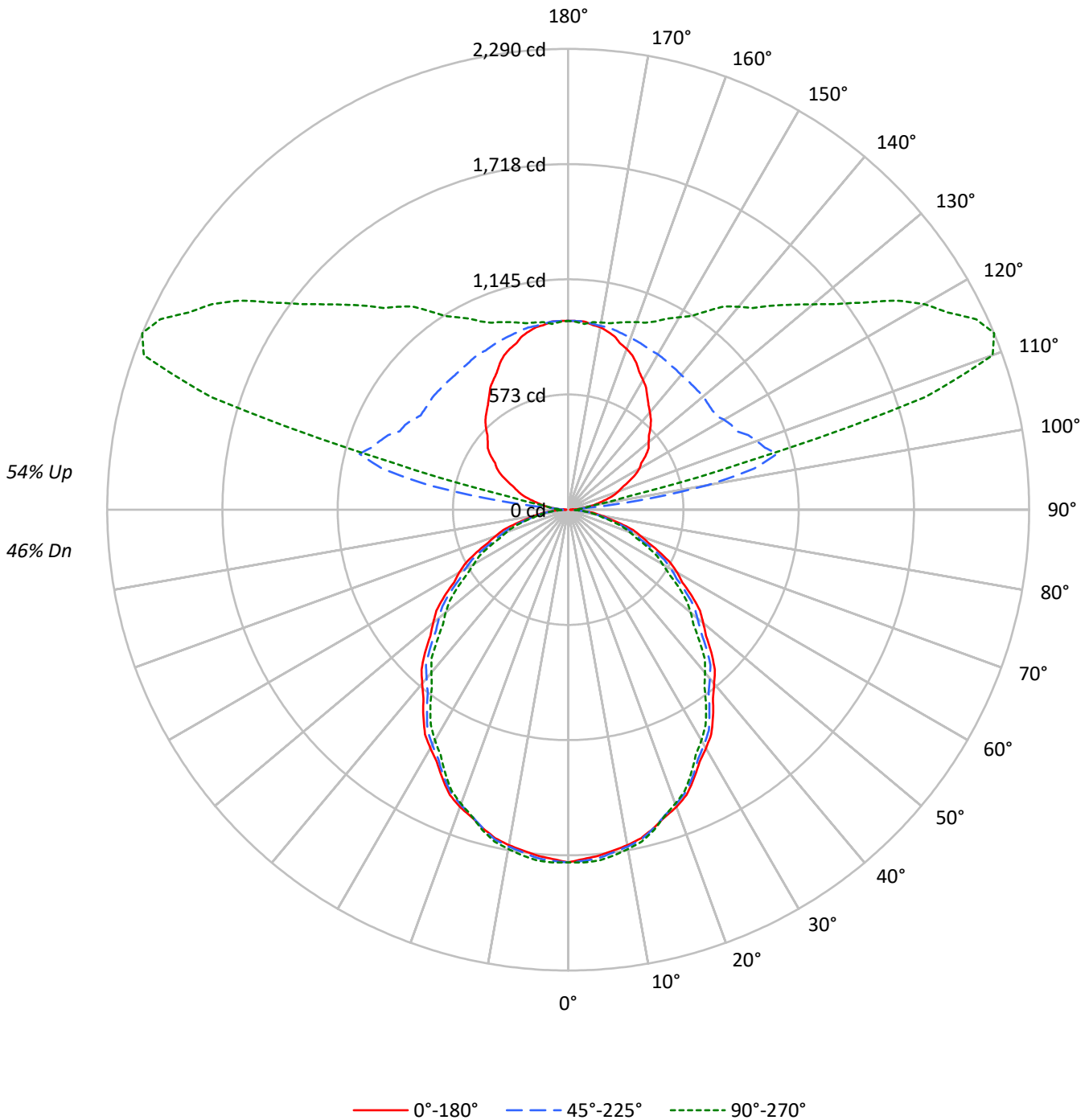
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9319.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 88.6
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

TEST NUMBER: P644739
CATALOG NUMBER: OMN4DIP-SR4F0-125D150U930-FLLOOB-1DUDD-WW

Luminous Intensity Polar Plot





TEST NUMBER: P644739

CATALOG NUMBER: OMN4DIP-SR4F0-125D150U930-FLLOOB-1DUDD-WW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	97	93	89	85	89	85	82	79	71	69	67	58	56	55	46	45	44	39
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	41	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	28
4	74	63	55	49	67	58	51	46	49	44	40	40	37	34	32	30	28	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	54	41	34	28	49	38	32	27	33	27	23	27	23	20	22	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28299	28299	28299
5°	27982	28175	28368
10°	27758	27876	28071
15°	27385	27385	27544
20°	27002	26797	26715
25°	26297	26085	25744
30°	25519	25163	24675
35°	24723	24112	23548
40°	23773	23071	22266
45°	22978	22108	21018
50°	21984	21024	19947
55°	21146	20071	18863
60°	20176	19097	17479
65°	19133	17765	16397
70°	18123	16438	15309
75°	16962	15028	14279
80°	15518	13742	13082
85°	14579	12819	11930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22978 cd/sqm



TEST NUMBER: P644739

CATALOG NUMBER: OMN4DIP-SR4F0-125D150U930-FLLOOB-1DUDD-WW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.8
10°-20°	462.7	5.0
20°-30°	672.7	7.2
30°-40°	765.3	8.2
40°-50°	746.1	8.0
50°-60°	636.9	6.8
60°-70°	462.8	5.0
70°-80°	261.7	2.8
80°-90°	82.7	0.9
90°-100°	125.6	1.3
100°-110°	828.0	8.9
110°-120°	1119.8	12.0
120°-130°	910.6	9.8
130°-140°	731.0	7.8
140°-150°	576.1	6.2
150°-160°	421.3	4.5
160°-170°	261.7	2.8
170°-180°	89.2	1.0
0°-30°	1300.3	14.0
0°-40°	2065.5	22.2
0°-60°	3448.6	37.0
0°-90°	4255.8	45.7
90°-120°	2073.3	22.2
90°-150°	4291.0	46.0
90°-180°	5063.0	54.3
0°-180°	9319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1726	1752	1738	1736	1750	164
15°	1638	1659	1638	1636	1648	462
25°	1476	1490	1464	1438	1445	679
35°	1254	1259	1223	1195	1195	783
45°	1006	1002	968	934	920	774
55°	751	749	713	679	670	670
65°	501	496	465	436	429	497
75°	272	262	241	231	229	289
85°	79	69	69	67	64	84
90°	10	18	26	30	30	12
95°	66	97	54	60	70	67
105°	195	288	1073	1367	903	207
115°	332	399	923	1914	2237	330
125°	471	535	870	1517	1794	418
135°	578	642	874	1250	1434	445
145°	685	742	880	1089	1204	430
155°	803	832	897	987	1033	369
165°	891	903	921	945	962	250
175°	939	944	939	932	927	89
180°	939	939	939	939	939	



TEST NUMBER: P644739

CATALOG NUMBER: OMN4DIP-SR4F0-125D150U930-FLLOOB-1DUDD-WW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1752.7	1752.7	1752.7	1752.7	1752.7
2.5°	1737.5	1759.8	1747.0	1747.2	1754.6
5°	1726.5	1752.1	1738.4	1736.3	1750.3
7.5°	1708.4	1733.6	1717.4	1715.0	1733.2
10°	1693.1	1716.4	1700.3	1695.9	1712.2
12.5°	1672.1	1695.4	1679.3	1673.0	1689.3
15°	1638.3	1659.2	1638.3	1636.1	1647.8
17.5°	1600.1	1618.3	1593.9	1586.0	1594.9
20°	1571.5	1587.8	1559.6	1547.8	1554.8
22.5°	1535.2	1551.6	1521.4	1504.0	1512.8
25°	1476.1	1490.1	1464.2	1438.1	1445.1
27.5°	1412.7	1423.4	1397.4	1370.8	1373.1
30°	1368.8	1375.8	1349.7	1321.2	1323.5
32.5°	1323.0	1328.1	1300.1	1269.6	1270.1
35°	1254.3	1259.0	1223.3	1194.7	1194.7
37.5°	1181.4	1184.2	1146.1	1115.0	1111.7
40°	1127.9	1132.6	1094.6	1063.4	1056.4
42.5°	1078.3	1079.3	1045.0	1013.8	1004.9
45°	1006.3	1001.7	968.2	934.5	920.5
47.5°	928.6	928.6	890.4	856.7	843.7
50°	875.2	875.2	837.0	803.4	794.1
52.5°	825.6	823.7	787.4	753.7	740.7
55°	751.2	748.8	713.0	679.4	670.1
57.5°	672.5	672.5	639.1	603.1	592.8
60°	624.8	624.8	591.4	555.3	541.3
62.5°	573.3	571.4	538.0	505.8	497.4
65°	500.8	496.1	465.0	436.2	429.2
67.5°	431.6	427.0	393.9	370.9	366.3
70°	383.9	379.3	348.2	329.0	324.3
72.5°	338.1	331.6	304.3	288.9	284.3
75°	271.9	262.5	240.9	231.3	228.9
77.5°	208.9	193.0	184.1	177.4	175.0
80°	166.9	152.9	147.8	143.0	140.7
82.5°	130.7	116.7	115.4	112.5	110.2
85°	78.7	69.4	69.2	66.7	64.4
87.5°	34.3	30.4	31.9	32.6	32.6
90°	9.5	17.6	26.1	29.6	29.6
92.5°	31.3	32.0	36.5	46.7	49.4
95°	66.3	97.4	54.4	60.5	69.7
97.5°	100.5	177.8	353.8	106.6	90.9
100°	128.8	220.0	701.3	207.4	138.2
102.5°	155.3	251.0	946.9	543.4	296.8
105°	194.9	288.4	1073.2	1367.2	903.1
107.5°	236.9	306.6	1024.8	1988.7	1860.6
110°	263.4	330.3	996.5	2089.6	2243.1



TEST NUMBER: P644739

CATALOG NUMBER: OMN4DIP-SR4F0-125D150U930-FLLOOB-1DUDD-WW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	358.6	968.1	2030.6	2290.3
115°	331.8	398.7	923.2	1914.0	2237.2
117.5°	375.5	441.3	912.6	1790.2	2122.7
120°	408.5	469.7	893.7	1696.1	2042.4
122.5°	430.3	497.9	870.1	1615.2	1933.8
125°	471.1	534.6	870.1	1517.4	1794.5
127.5°	502.9	569.5	871.3	1404.0	1677.6
130°	521.8	591.1	876.0	1328.1	1587.9
132.5°	543.5	612.8	874.1	1294.0	1507.6
135°	578.5	642.0	873.6	1249.7	1434.4
137.5°	608.0	676.1	873.6	1200.7	1358.8
140°	631.6	695.1	873.6	1172.0	1316.3
142.5°	655.2	714.1	878.3	1138.8	1273.8
145°	684.7	742.4	879.5	1088.8	1204.2
147.5°	720.1	770.9	886.6	1052.7	1141.6
150°	743.8	789.9	891.3	1028.8	1103.8
152.5°	767.4	808.9	891.3	1009.6	1070.8
155°	802.8	831.6	897.2	986.8	1033.0
157.5°	831.1	858.8	904.3	972.4	1005.8
160°	850.0	873.1	909.0	962.8	991.7
162.5°	864.2	887.3	913.8	957.9	977.5
165°	891.3	902.9	920.8	944.9	962.2
167.5°	906.7	917.1	926.7	938.8	949.2
170°	920.8	926.6	926.7	938.7	944.5
172.5°	925.6	936.0	931.5	934.0	939.7
175°	938.6	944.3	938.6	932.5	926.7
177.5°	938.6	943.2	938.6	938.5	933.8
180°	938.6	938.6	938.6	938.6	938.6

(END OF REPORT)