

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: P644715

Luminaire Tested: OMN4DIP-SR4F0-125D125U935-FLLOOB-1DUDD-WW

Issue Date: 2/16/2023



**Test Information**

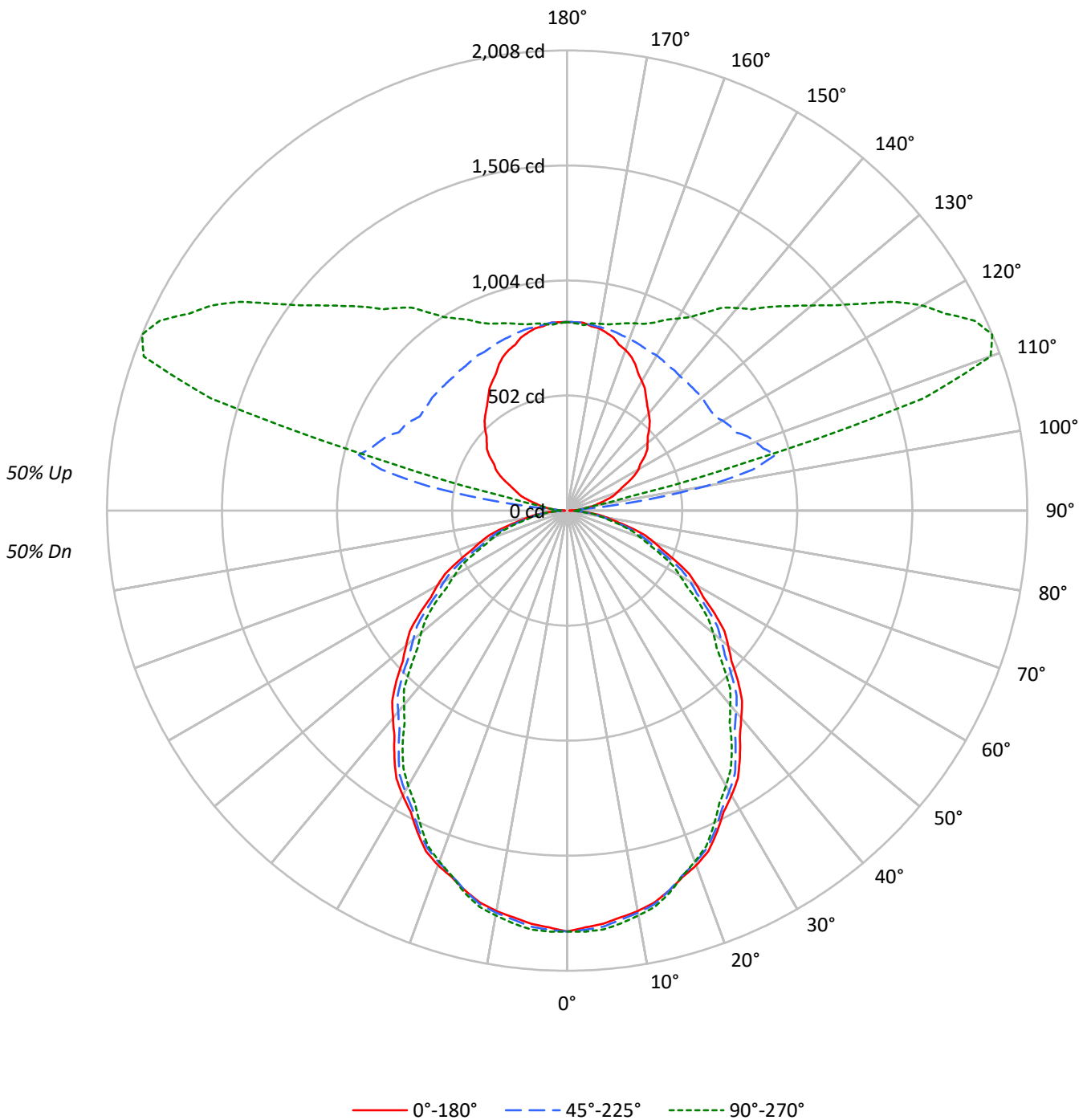
Test Method: LM-79-2019  
Report Number: P644715  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2206-689-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: OMN4DIP-SR4F0-125D125U935-FLLOOB-1DUDD-WW  
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE  
DOWNLIGHT - FLAT FROSTED LENS - 1250 LUMENS PER FOOT  
UPLIGHT - BATWING OPTIC - 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8901.7 lumens  
Efficiency: N/A  
Efficacy: 113.8 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): 78.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	50	49	48	42				
2	89	82	76	71	82	76	70	66	64	60	57	54	51	48	44	42	40	36				
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30				
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	22	19	17	14				
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	17	15	13				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	29657	29657	29657
5°	29324	29527	29729
10°	29091	29214	29419
15°	28699	28699	28866
20°	28297	28082	27996
25°	27558	27335	26981
30°	26744	26371	25859
35°	25909	25269	24677
40°	24915	24177	23334
45°	24080	23167	22028
50°	23039	22034	20904
55°	22159	21033	19767
60°	21145	20014	18319
65°	20050	18617	17184
70°	18996	17226	16046
75°	17773	15745	14966
80°	16262	14403	13705
85°	15283	13431	12505

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24080 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.8	1.9
10°-20°	484.9	5.4
20°-30°	705.0	7.9
30°-40°	802.0	9.0
40°-50°	781.9	8.8
50°-60°	667.5	7.5
60°-70°	485.0	5.4
70°-80°	274.3	3.1
80°-90°	86.3	1.0
90°-100°	111.8	1.3
100°-110°	726.8	8.2
110°-120°	982.2	11.0
120°-130°	798.6	9.0
130°-140°	640.8	7.2
140°-150°	505.0	5.7
150°-160°	369.3	4.1
160°-170°	229.4	2.6
170°-180°	78.2	0.9
0°-30°	1362.7	15.3
0°-40°	2164.7	24.3
0°-60°	3614.1	40.6
0°-90°	4459.7	50.1
90°-120°	1820.8	20.5
90°-150°	3765.2	42.3
90°-180°	4442.0	49.9
0°-180°	8901.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1809	1836	1822	1820	1834	172
15°	1717	1739	1717	1715	1727	484
25°	1547	1562	1534	1507	1514	712
35°	1314	1319	1282	1252	1252	821
45°	1055	1050	1015	979	965	812
55°	787	785	747	712	702	703
65°	525	520	487	457	450	521
75°	285	275	252	242	240	302
85°	82	73	72	70	68	88
90°	10	18	25	28	28	12
95°	61	87	49	54	62	61
105°	173	254	942	1199	792	183
115°	292	350	810	1678	1961	291
125°	414	469	763	1330	1573	367
135°	507	563	766	1096	1257	390
145°	600	651	771	954	1056	377
155°	704	729	786	865	906	323
165°	781	792	807	828	843	219
175°	823	828	823	817	812	78
180°	823	823	823	823	823	



TEST NUMBER: P644715

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1836.8	1836.8	1836.8	1836.8	1836.8
2.5°	1820.8	1844.3	1830.8	1831.0	1838.8
5°	1809.3	1836.2	1821.8	1819.7	1834.3
7.5°	1790.4	1816.7	1799.8	1797.3	1816.3
10°	1774.4	1798.8	1781.9	1777.2	1794.4
12.5°	1752.4	1776.8	1759.9	1753.3	1770.4
15°	1716.9	1738.9	1716.9	1714.7	1726.9
17.5°	1676.9	1696.0	1670.4	1662.1	1671.4
20°	1646.9	1664.0	1634.4	1622.1	1629.4
22.5°	1608.9	1626.0	1594.4	1576.1	1585.4
25°	1546.9	1561.6	1534.4	1507.1	1514.5
27.5°	1480.5	1491.7	1464.5	1436.5	1439.0
30°	1434.5	1441.8	1414.5	1384.6	1387.0
32.5°	1386.5	1391.9	1362.5	1330.5	1331.0
35°	1314.5	1319.4	1282.0	1252.0	1252.0
37.5°	1238.1	1241.0	1201.1	1168.5	1165.1
40°	1182.1	1187.0	1147.1	1114.4	1107.1
42.5°	1130.1	1131.1	1095.1	1062.4	1053.1
45°	1054.6	1049.7	1014.6	979.3	964.7
47.5°	973.1	973.1	933.2	897.9	884.2
50°	917.2	917.2	877.2	842.0	832.2
52.5°	865.2	863.2	825.2	789.9	776.2
55°	787.2	784.8	747.2	712.0	702.2
57.5°	704.7	704.7	669.8	632.0	621.3
60°	654.8	654.8	619.8	582.0	567.3
62.5°	600.8	598.8	563.8	530.1	521.3
65°	524.8	519.9	487.3	457.2	449.8
67.5°	452.3	447.4	412.9	388.7	383.9
70°	402.4	397.5	364.9	344.8	339.9
72.5°	354.4	347.5	318.9	302.8	297.9
75°	284.9	275.1	252.4	242.4	239.9
77.5°	218.9	202.3	192.9	185.9	183.4
80°	174.9	160.3	154.9	149.9	147.4
82.5°	137.0	122.3	121.0	117.9	115.5
85°	82.5	72.7	72.5	69.9	67.5
87.5°	36.0	31.6	33.1	33.6	33.6
90°	10.0	17.5	25.3	28.0	28.0
92.5°	30.4	30.1	33.8	42.6	44.7
95°	61.4	87.0	48.9	54.2	61.9
97.5°	91.0	157.5	311.3	94.2	80.1
100°	115.8	194.5	615.6	182.2	121.5
102.5°	138.6	221.4	830.8	476.7	260.3
105°	172.9	254.0	941.6	1198.9	791.7
107.5°	209.7	270.0	899.1	1743.7	1631.0
110°	232.5	290.8	874.3	1832.1	1966.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	257.3	315.6	849.5	1780.4	2007.7
115°	292.1	350.4	809.7	1677.8	1961.1
117.5°	330.4	387.6	800.4	1569.3	1860.7
120°	359.4	412.6	783.8	1486.8	1790.3
122.5°	378.1	437.3	763.1	1415.9	1695.1
125°	413.8	469.4	763.1	1330.2	1573.0
127.5°	441.3	499.9	764.2	1230.8	1470.6
130°	457.8	518.6	768.3	1164.2	1391.9
132.5°	476.5	537.3	766.3	1134.3	1321.5
135°	507.1	562.7	765.8	1095.5	1257.4
137.5°	533.0	592.7	765.8	1052.5	1191.1
140°	553.7	609.3	765.8	1027.4	1153.9
142.5°	574.4	626.0	770.0	998.2	1116.6
145°	600.2	650.8	771.0	954.4	1055.6
147.5°	631.3	675.8	777.2	922.8	1000.7
150°	652.0	692.5	781.3	901.8	967.6
152.5°	672.7	709.1	781.3	885.0	938.6
155°	703.7	729.0	786.5	865.0	905.5
157.5°	728.6	752.8	792.7	852.4	881.7
160°	745.1	765.4	796.9	844.0	869.3
162.5°	757.5	777.8	801.0	839.7	856.9
165°	781.3	791.5	807.2	828.3	843.4
167.5°	794.8	803.9	812.4	822.9	832.0
170°	807.2	812.3	812.4	822.8	827.9
172.5°	811.3	820.5	816.5	818.7	823.8
175°	822.7	827.8	822.7	817.4	812.4
177.5°	822.7	826.8	822.7	822.6	818.6
180°	822.7	822.7	822.7	822.7	822.7

(END OF REPORT)