

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: P644707

Luminaire Tested: OMN4DIP-SR4F0-125D125U930-CLBOOB-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P644707
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-SR4F0-125D125U930-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

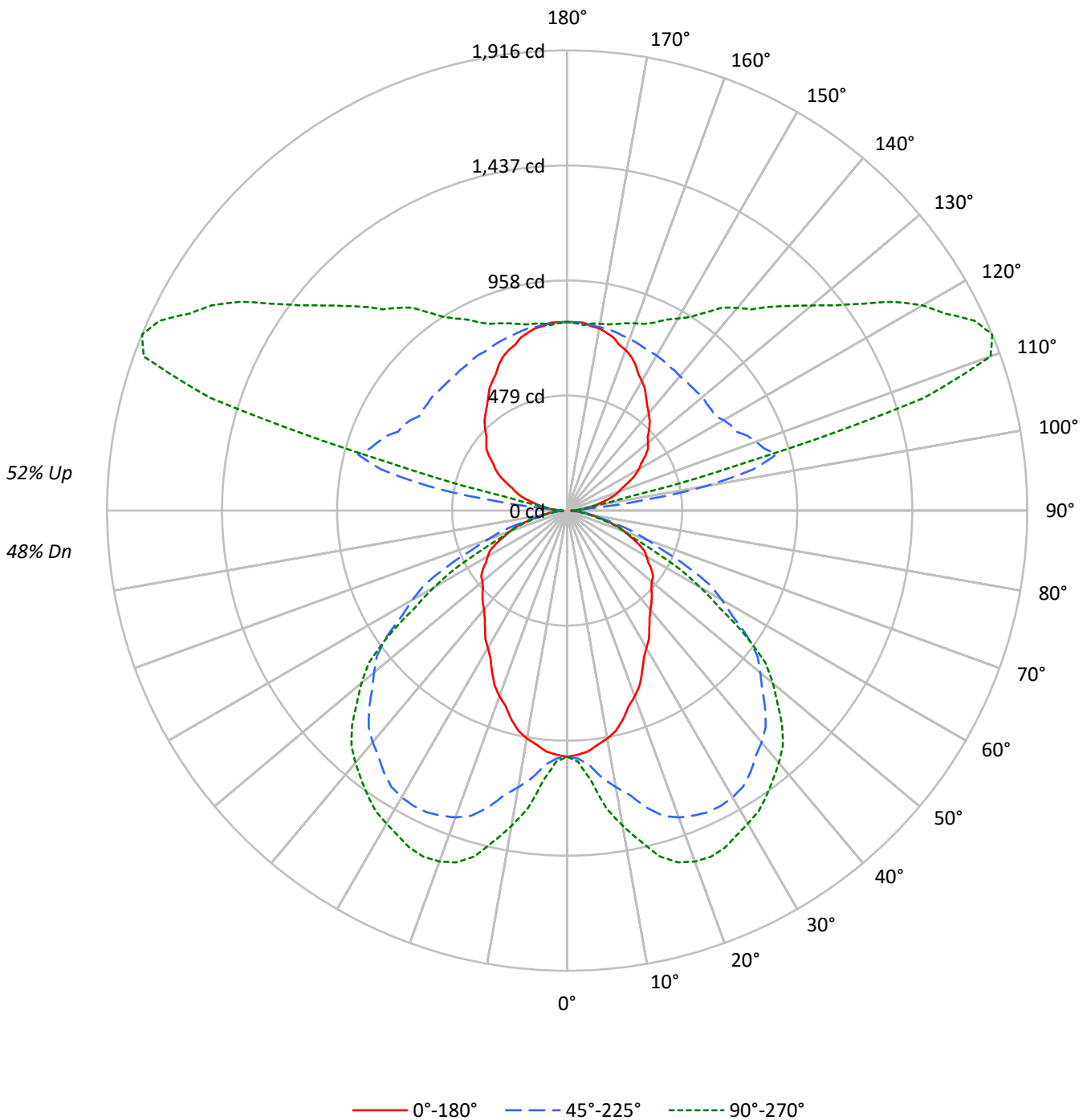
Lumens per Lamp: N/A
Luminaire Lumens: 8184.8 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 1.87 / 1.75
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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	40	39	38	37	36	35														
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34	33	32	31	30	29	28														
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	28	27	26	25	24	23														
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	31	28	24	23	22	21	20	19	18														
5	68	56	48	42	62	52	45	39	44	38	34	37	32	29	30	27	24	21	20	19	18	17	16	15														
6	62	50	42	36	57	46	39	34	39	34	30	33	29	25	27	24	21	18	17	16	15	14	13	12														
7	57	45	37	31	53	42	35	30	36	30	26	30	26	22	24	21	19	16	15	14	13	12	11	10														
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17	14	13	12	11	10	9	8														
9	49	37	30	24	45	35	28	23	30	24	20	25	21	18	21	17	15	12	11	10	9	8	7	6														
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	10	9	8	7	6	5	4														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16556	16556	16556
5°	16310	17238	18243
10°	15795	19157	21854
15°	15027	21406	24913
20°	14136	23356	26715
25°	13169	24683	27613
30°	12314	25696	28053
35°	11751	26227	28531
40°	11358	26538	28901
45°	11380	26626	28914
50°	11560	26354	28092
55°	12082	25844	25509
60°	12319	24025	20715
65°	12481	21047	15213
70°	11934	16546	11821
75°	10711	12346	9969
80°	9093	9754	7978
85°	8837	7947	6632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 28914 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.3
10°-20°	349.5	4.3
20°-30°	580.6	7.1
30°-40°	732.4	8.9
40°-50°	783.0	9.6
50°-60°	691.1	8.4
60°-70°	443.5	5.4
70°-80°	196.7	2.4
80°-90°	52.7	0.6
90°-100°	109.9	1.3
100°-110°	696.4	8.5
110°-120°	940.3	11.5
120°-130°	764.2	9.3
130°-140°	611.7	7.5
140°-150°	481.9	5.9
150°-160°	352.4	4.3
160°-170°	218.9	2.7
170°-180°	74.6	0.9
0°-30°	1035.2	12.6
0°-40°	1767.7	21.6
0°-60°	3241.7	39.6
0°-90°	3934.6	48.1
90°-120°	1746.6	21.3
90°-150°	3604.3	44.0
90°-180°	4250.0	51.9
0°-180°	8184.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1006	1037	1064	1100	1126	95
15°	899	1037	1281	1434	1490	252
25°	739	1003	1386	1515	1550	340
35°	596	916	1331	1417	1448	374
45°	498	783	1166	1238	1266	385
55°	429	616	918	922	906	381
65°	327	413	551	447	398	320
75°	172	190	198	169	160	183
85°	48	41	43	38	36	50
90°	17	22	24	29	24	13
95°	66	90	51	52	59	64
105°	170	250	901	1144	755	180
115°	284	339	777	1603	1871	282
125°	397	450	733	1272	1501	353
135°	484	537	731	1045	1200	373
145°	573	621	736	911	1007	360
155°	672	696	750	825	864	308
165°	746	755	770	790	805	209
175°	785	790	785	780	775	74
180°	785	785	785	785	785	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1017.8	1032.7	1033.0	1038.9	1046.4
5°	1006.3	1036.6	1063.6	1099.9	1125.6
7.5°	982.5	1036.6	1122.7	1207.1	1249.1
10°	963.4	1038.0	1168.5	1281.7	1333.0
12.5°	938.6	1037.5	1214.3	1350.6	1409.3
15°	899.0	1036.6	1280.6	1434.4	1490.4
17.5°	853.2	1032.3	1332.5	1486.8	1535.7
20°	822.7	1027.9	1359.3	1505.8	1554.8
22.5°	788.4	1017.8	1374.5	1515.3	1560.5
25°	739.2	1002.7	1385.5	1515.0	1550.0
27.5°	691.1	981.1	1386.0	1495.9	1525.7
30°	660.5	963.7	1378.3	1476.7	1504.7
32.5°	633.8	944.4	1363.1	1453.9	1483.7
35°	596.2	915.6	1330.6	1417.2	1447.5
37.5°	563.7	882.7	1289.6	1373.9	1409.3
40°	538.9	856.0	1259.1	1343.2	1371.2
42.5°	519.9	827.6	1222.8	1305.0	1329.2
45°	498.4	782.9	1166.1	1238.3	1266.3
47.5°	475.5	736.6	1100.8	1168.9	1187.1
50°	460.2	702.7	1049.2	1111.4	1118.4
52.5°	450.7	667.1	999.6	1038.8	1040.2
55°	429.2	615.8	918.1	922.5	906.2
57.5°	400.6	555.9	814.6	791.3	752.1
60°	381.5	514.4	744.0	697.4	641.5
62.5°	362.5	474.9	669.6	594.2	528.9
65°	326.7	413.0	550.9	447.2	398.2
67.5°	285.2	344.9	432.6	334.5	301.9
70°	252.8	299.4	350.5	273.7	250.4
72.5°	222.2	254.0	283.8	226.3	214.1
75°	171.7	190.3	197.9	169.1	159.8
77.5°	126.4	127.3	137.4	119.1	114.5
80°	97.8	93.1	104.9	90.5	85.8
82.5°	74.9	68.3	76.3	65.8	63.0
85°	47.7	40.7	42.9	38.1	35.8
87.5°	28.1	23.5	23.9	22.9	20.1
90°	16.7	21.5	24.2	29.0	24.4
92.5°	34.3	33.5	34.1	41.1	40.3
95°	65.7	90.2	51.4	51.8	59.1
97.5°	93.5	157.0	299.4	90.4	76.4
100°	115.3	190.4	589.8	176.2	115.9
102.5°	137.1	217.9	795.2	455.4	248.3
105°	169.8	249.5	900.8	1144.0	755.4
107.5°	204.8	262.4	860.3	1663.9	1556.3
110°	226.6	282.2	836.6	1748.2	1876.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	250.3	305.9	812.9	1698.9	1915.7
115°	283.5	339.1	777.4	1603.3	1871.3
117.5°	319.5	374.6	768.5	1499.8	1775.5
120°	345.3	398.4	752.7	1421.0	1708.4
122.5°	365.0	420.1	731.1	1353.4	1617.5
125°	397.2	450.3	733.0	1271.6	1501.0
127.5°	423.5	479.4	731.6	1176.3	1403.2
130°	439.3	497.2	735.5	1110.9	1328.2
132.5°	455.2	513.1	731.7	1082.4	1261.0
135°	483.9	537.0	730.7	1045.3	1199.8
137.5°	508.6	565.5	730.7	1004.3	1136.6
140°	528.3	581.4	730.7	980.4	1101.1
142.5°	548.1	597.3	734.7	952.5	1065.5
145°	572.7	621.0	735.7	910.7	1007.2
147.5°	602.4	644.9	741.6	880.6	954.9
150°	622.1	660.7	745.6	860.5	923.3
152.5°	641.9	676.6	745.6	844.5	895.7
155°	671.5	695.6	750.5	825.4	864.1
157.5°	695.2	718.4	756.4	813.3	841.3
160°	711.0	730.3	760.4	805.4	829.5
162.5°	722.8	742.2	764.3	801.2	817.6
165°	745.6	755.2	770.2	790.3	804.8
167.5°	758.4	767.1	775.2	785.3	793.9
170°	770.2	775.1	775.2	785.2	790.0
172.5°	774.2	782.9	779.1	781.2	786.0
175°	785.1	789.9	785.1	780.0	775.2
177.5°	785.1	788.9	785.1	785.0	781.1
180°	785.1	785.1	785.1	785.1	785.1

(END OF REPORT)