

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: P644737

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

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P644737
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-SR4F0-125D150U930-CLBOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - BATWING LENS - 1250 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

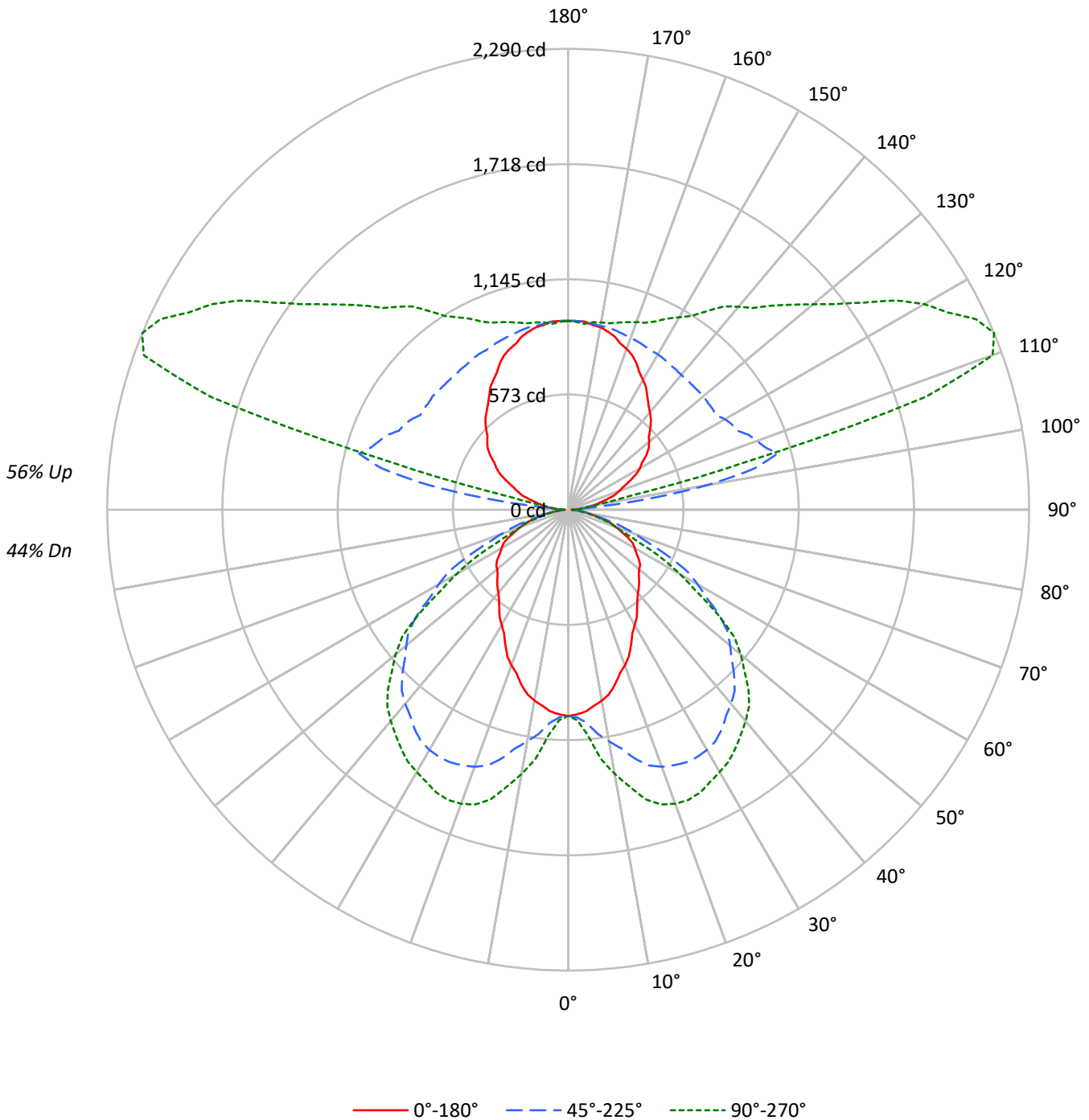
Lumens per Lamp: N/A
Luminaire Lumens: 9009.7 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 1.87 / 1.75
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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

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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	0
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80		64	64	64		50	50	50	44
1	96	92	88	85	88	85	81	78	70	68	66		57	55	54		45	44	43	37
2	88	81	74	69	80	74	69	64	61	58	54		50	47	45		39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46		44	41	38		35	32	30	26
4	73	62	55	49	67	57	50	45	48	43	39		39	35	32		31	28	26	22
5	67	55	47	41	61	51	44	39	43	37	33		35	31	28		28	25	23	19
6	62	49	41	36	56	46	38	33	38	33	29		31	27	24		25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25		28	24	21		23	20	17	15
8	53	40	33	27	48	37	30	26	31	26	22		26	22	19		21	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20		24	20	17		19	16	14	12
10	46	33	26	21	42	31	25	20	26	21	18		22	18	15		18	15	12	10

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	1.2
10°-20°	349.5	3.9
20°-30°	580.6	6.4
30°-40°	732.4	8.1
40°-50°	783.0	8.7
50°-60°	691.1	7.7
60°-70°	443.5	4.9
70°-80°	196.7	2.2
80°-90°	53.1	0.6
90°-100°	128.8	1.4
100°-110°	830.9	9.2
110°-120°	1122.9	12.5
120°-130°	912.8	10.1
130°-140°	731.2	8.1
140°-150°	576.1	6.4
150°-160°	421.3	4.7
160°-170°	261.7	2.9
170°-180°	89.2	1.0
0°-30°	1035.2	11.5
0°-40°	1767.7	19.6
0°-60°	3241.7	36.0
0°-90°	3935.0	43.7
90°-120°	2082.5	23.1
90°-150°	4302.6	47.8
90°-180°	5075.0	56.3
0°-180°	9009.7	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	26	32	27	13
95°	74	104	59	60	70	72
105°	200	296	1076	1367	903	212
115°	337	404	928	1916	2237	335
125°	474	537	875	1520	1794	421
135°	578	642	874	1250	1434	446
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	

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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	23.7	24.3	23.5	20.7
90°	16.7	22.5	26.1	31.9	27.2
92.5°	36.6	36.8	38.4	47.1	47.0
95°	73.5	104.5	59.1	60.5	69.7
97.5°	107.2	184.5	356.1	107.1	90.9
100°	133.6	224.7	703.7	209.7	138.2
102.5°	160.0	257.6	949.3	543.9	296.8
105°	199.7	295.5	1075.6	1367.2	903.1
107.5°	241.7	311.4	1027.2	1988.7	1860.6
110°	268.1	335.1	998.8	2089.6	2243.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	363.4	970.5	2030.6	2290.3
115°	336.6	403.5	928.0	1916.3	2237.2
117.5°	379.8	446.0	917.4	1792.6	2122.7
120°	410.9	474.4	898.5	1698.4	2042.4
122.5°	434.5	500.8	873.0	1617.5	1933.8
125°	473.5	537.0	874.9	1519.8	1794.5
127.5°	505.3	571.8	873.7	1405.9	1677.6
130°	524.2	593.5	878.4	1328.1	1587.9
132.5°	544.0	613.3	874.6	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)