

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: P644797

Luminaire Tested: OMN4DIP-SR4F0-125D50U930-CLBOOB-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P644797
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-SR4F0-125D50U930-CLBOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - BATWING LENS - 1250 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

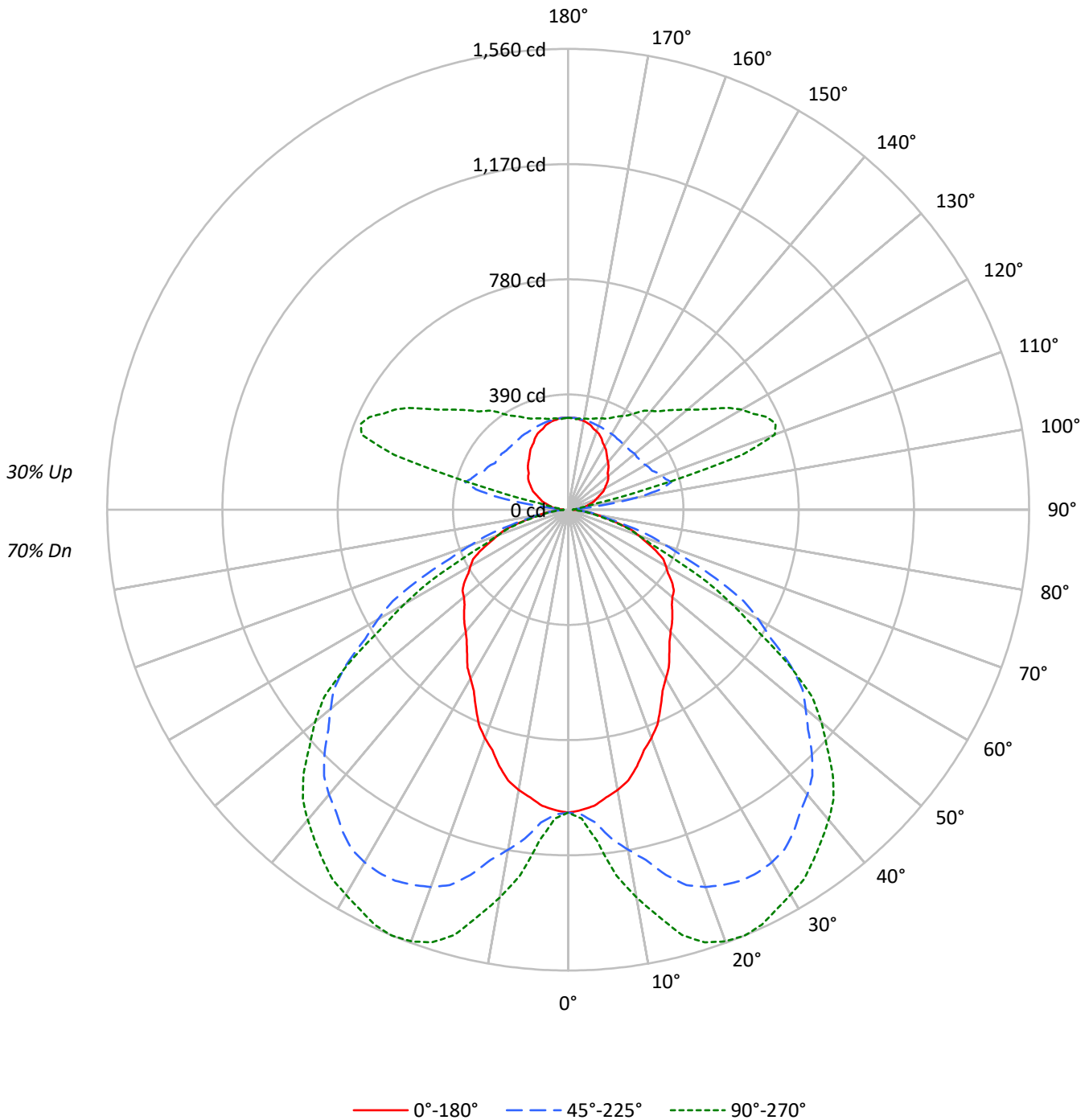
Lumens per Lamp: N/A
Luminaire Lumens: 5638.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 1.87 / 1.75
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 54.6
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: P644797

CATALOG NUMBER: OMN4DIP-SR4F0-125D50U930-CLBOOB-1DUDD-WW

Luminous Intensity Polar Plot





TEST NUMBER: P644797

CATALOG NUMBER: OMN4DIP-SR4F0-125D50U930-CLBOOB-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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	61	80	71	64	59	64	59	54	57	53	50	51	48	45	42
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	46	42	39	36
5	71	59	51	44	67	56	48	43	51	44	40	46	40	36	41	37	33	31
6	66	53	44	38	62	50	43	37	46	39	34	41	36	32	37	33	29	27
7	61	48	39	34	57	45	38	32	41	35	30	37	32	28	34	29	26	23
8	56	43	35	30	53	41	34	29	38	31	27	34	29	25	31	26	23	21
9	52	39	32	26	49	38	30	25	34	28	24	31	26	22	28	24	21	18
10	49	36	29	24	46	35	28	23	32	26	21	29	24	20	26	22	19	17

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



TEST NUMBER: P644797

CATALOG NUMBER: OMN4DIP-SR4F0-125D50U930-CLBOOB-1DUDD-WW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.9
10°-20°	349.5	6.2
20°-30°	580.6	10.3
30°-40°	732.4	13.0
40°-50°	783.0	13.9
50°-60°	691.1	12.3
60°-70°	443.5	7.9
70°-80°	196.7	3.5
80°-90°	51.7	0.9
90°-100°	51.7	0.9
100°-110°	281.3	5.0
110°-120°	376.8	6.7
120°-130°	305.5	5.4
130°-140°	242.8	4.3
140°-150°	191.1	3.4
150°-160°	139.7	2.5
160°-170°	86.8	1.5
170°-180°	29.6	0.5
0°-30°	1035.2	18.4
0°-40°	1767.7	31.3
0°-60°	3241.7	57.5
0°-90°	3933.6	69.8
90°-120°	709.8	12.6
90°-150°	1449.2	25.7
90°-180°	1705.0	30.2
0°-180°	5638.9	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	19	18	20	15	12
95°	42	46	28	25	26	37
105°	77	108	362	455	300	83
115°	120	140	313	637	742	119
125°	162	183	295	506	595	144
135°	192	213	290	414	476	148
145°	227	246	292	361	399	143
155°	266	276	298	327	343	122
165°	296	300	305	313	319	83
175°	311	313	311	309	307	29
180°	311	311	311	311	311	



TEST NUMBER: P644797

CATALOG NUMBER: OMN4DIP-SR4F0-125D50U930-CLBOOB-1DUDD-WW

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	22.9	22.7	21.1	18.3
90°	16.7	18.6	18.2	20.1	15.4
92.5°	27.1	23.4	21.0	22.6	19.4
95°	41.9	46.0	27.6	24.8	26.3
97.5°	51.2	72.1	124.2	38.7	31.8
100°	58.7	84.2	238.2	72.7	47.4
102.5°	66.2	95.1	319.6	182.3	98.8
105°	77.4	107.6	361.5	455.0	299.6
107.5°	91.0	111.3	345.5	661.2	617.1
110°	98.5	119.1	336.1	694.6	744.0



TEST NUMBER: P644797

CATALOG NUMBER: OMN4DIP-SR4F0-125D50U930-CLBOOB-1DUDD-WW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.9	128.5	326.7	675.1	759.7
115°	119.6	140.2	312.6	637.2	742.0
117.5°	133.6	154.3	309.1	596.1	704.1
120°	142.7	163.7	302.8	564.9	677.4
122.5°	150.5	171.2	293.1	538.1	641.4
125°	161.8	182.9	295.0	505.6	595.2
127.5°	170.8	194.1	293.0	467.6	556.4
130°	177.1	200.0	294.5	440.5	526.7
132.5°	181.1	204.1	290.7	429.2	500.0
135°	191.9	212.9	289.8	414.5	475.8
137.5°	201.7	224.3	289.8	398.2	450.7
140°	209.5	230.6	289.8	388.7	436.6
142.5°	217.3	236.9	291.3	377.7	422.5
145°	227.1	246.3	291.7	361.1	399.4
147.5°	238.9	255.7	294.1	349.2	378.7
150°	246.7	262.0	295.6	341.2	366.1
152.5°	254.5	268.3	295.6	334.9	355.2
155°	266.3	275.8	297.6	327.3	342.6
157.5°	275.7	284.9	299.9	322.5	333.6
160°	281.9	289.6	301.5	319.4	328.9
162.5°	286.6	294.3	303.1	317.7	324.2
165°	295.6	299.5	305.4	313.4	319.1
167.5°	300.7	304.2	307.4	311.4	314.8
170°	305.4	307.3	307.4	311.3	313.3
172.5°	307.0	310.4	309.0	309.8	311.7
175°	311.3	313.2	311.3	309.3	307.4
177.5°	311.3	312.8	311.3	311.3	309.7
180°	311.3	311.3	311.3	311.3	311.3

(END OF REPORT)