

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: P644767

Luminaire Tested: OMN4DIP-SR4F0-125D25U930-CLBOOB-1DUDD-WW

Issue Date: 2/16/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: P644767  
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-SR4F0-125D25U930-CLBOOB-1DUDD-WW  
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE  
DOWNLIGHT - BATWING LENS - 1250 LUMENS PER FOOT  
UPLIGHT - BATWING OPTIC - 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

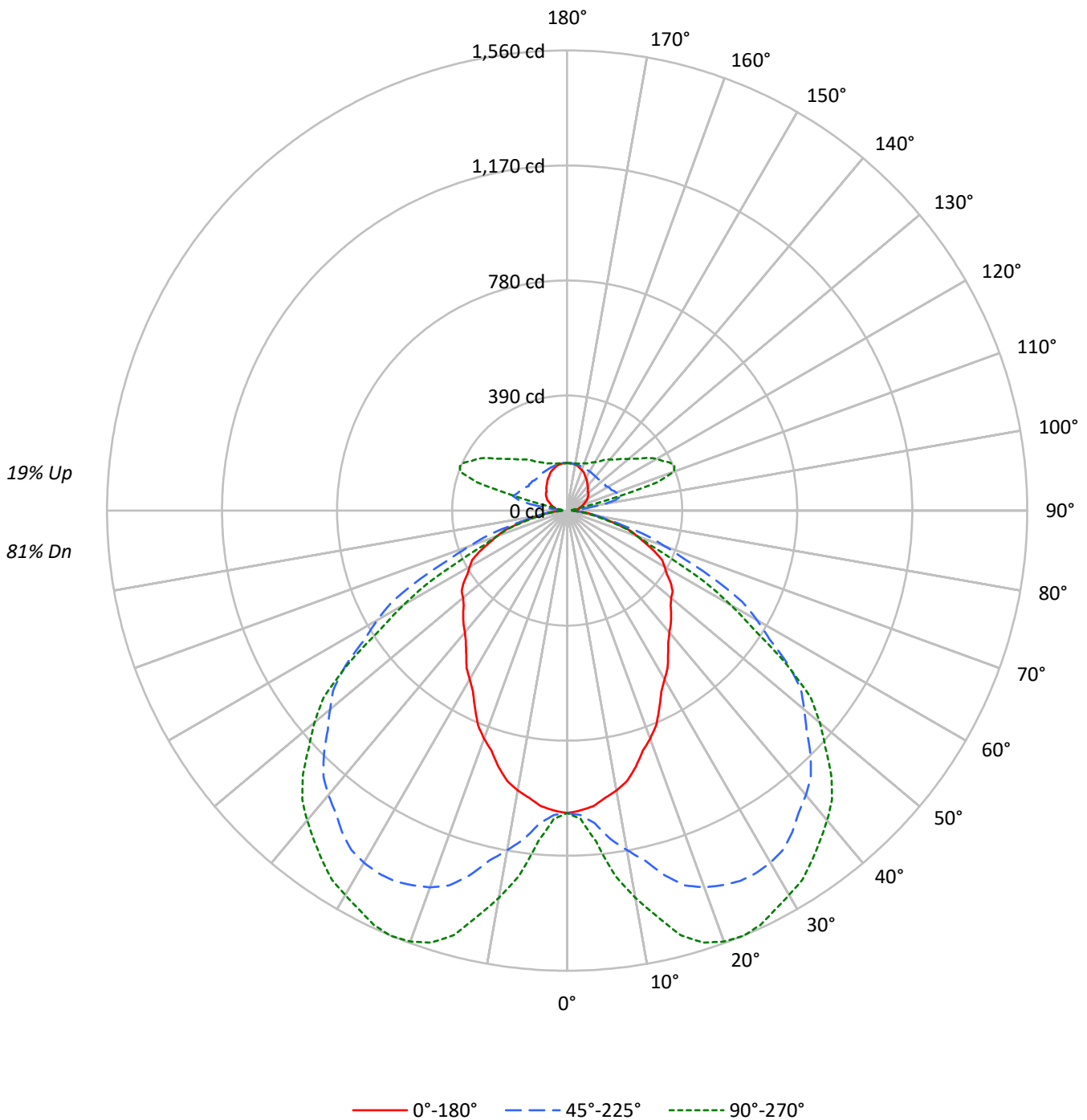
Lumens per Lamp: N/A  
Luminaire Lumens: 4832.8 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 1.87 / 1.75  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.3  
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: P644767

CATALOG NUMBER: OMN4DIP-SR4F0-125D25U930-CLBOOB-1DUDD-WW

### Luminous Intensity Polar Plot





TEST NUMBER: P644767

CATALOG NUMBER: OMN4DIP-SR4F0-125D25U930-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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	81
1	105	101	97	93	100	96	93	90	89	86	84	82	80	78	75	74	72	69
2	96	88	81	76	91	84	79	74	78	73	69	72	68	65	66	63	61	58
3	87	77	69	63	83	74	67	61	69	63	58	63	59	55	59	55	52	49
4	80	68	60	53	76	66	58	52	61	54	49	56	51	47	52	48	44	41
5	73	61	52	46	70	59	51	45	54	48	42	50	45	40	47	42	38	36
6	67	54	46	40	64	53	44	39	49	42	37	45	40	35	42	37	33	31
7	62	49	41	35	59	47	40	34	44	37	32	41	35	31	38	33	29	27
8	58	45	36	31	55	43	35	30	40	34	29	38	32	27	35	30	26	24
9	54	41	33	27	51	39	32	27	37	30	26	35	29	25	32	27	24	22
10	50	37	30	25	48	36	29	24	34	28	23	32	26	22	30	25	21	19

**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: P644767

CATALOG NUMBER: OMN4DIP-SR4F0-125D25U930-CLBOOB-1DUDD-WW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.2	2.2
10°-20°	349.5	7.2
20°-30°	580.6	12.0
30°-40°	732.4	15.2
40°-50°	783.0	16.2
50°-60°	691.1	14.3
60°-70°	443.5	9.2
70°-80°	196.7	4.1
80°-90°	51.3	1.1
90°-100°	33.2	0.7
100°-110°	149.9	3.1
110°-120°	198.4	4.1
120°-130°	160.3	3.3
130°-140°	126.0	2.6
140°-150°	99.0	2.0
150°-160°	72.4	1.5
160°-170°	45.0	0.9
170°-180°	15.3	0.3
0°-30°	1035.2	21.4
0°-40°	1767.7	36.6
0°-60°	3241.7	67.1
0°-90°	3933.2	81.4
90°-120°	381.5	7.9
90°-150°	766.9	15.9
90°-180°	900.0	18.6
0°-180°	4832.8	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	18	16	17	13	12
95°	34	32	20	16	16	29
105°	48	63	191	237	155	52
115°	68	77	165	331	384	68
125°	87	98	156	263	308	78
135°	99	110	150	215	246	77
145°	118	128	151	187	207	74
155°	138	143	154	170	178	63
165°	153	155	158	162	165	43
175°	161	162	161	160	159	15
180°	161	161	161	161	161	



TEST NUMBER: P644767

CATALOG NUMBER: OMN4DIP-SR4F0-125D25U930-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	22.7	22.3	20.6	17.8
90°	16.7	17.7	16.3	17.2	12.6
92.5°	24.9	20.2	16.9	16.7	12.8
95°	34.3	32.0	20.0	16.3	15.9
97.5°	37.8	45.3	68.7	22.3	17.6
100°	40.7	50.6	126.9	40.0	25.7
102.5°	43.7	56.2	169.1	95.8	51.4
105°	48.1	62.7	190.8	236.9	155.2
107.5°	55.0	63.5	182.5	343.7	319.8
110°	57.9	67.5	177.6	361.1	385.5



TEST NUMBER: P644767

CATALOG NUMBER: OMN4DIP-SR4F0-125D25U930-CLBOOB-1DUDD-WW

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	62.8	72.4	172.7	350.9	393.6
115°	67.7	77.3	165.4	331.3	384.5
117.5°	74.8	84.6	163.6	310.0	364.8
120°	78.5	89.4	160.3	293.8	351.0
122.5°	82.6	92.4	154.4	279.9	332.3
125°	87.3	98.2	156.3	263.1	308.4
127.5°	90.8	103.8	154.1	243.2	288.3
130°	94.0	105.9	154.9	228.3	272.9
132.5°	94.3	106.2	151.1	222.4	259.1
135°	99.4	110.3	150.1	214.8	246.5
137.5°	104.5	116.2	150.1	206.4	233.5
140°	108.6	119.5	150.1	201.4	226.2
142.5°	112.6	122.7	151.0	195.7	218.9
145°	117.7	127.6	151.2	187.1	207.0
147.5°	123.8	132.5	152.4	180.9	196.2
150°	127.8	135.8	153.2	176.8	189.7
152.5°	131.9	139.0	153.2	173.5	184.0
155°	138.0	142.9	154.2	169.6	177.5
157.5°	142.8	147.6	155.4	167.1	172.9
160°	146.1	150.1	156.2	165.5	170.4
162.5°	148.5	152.5	157.0	164.6	168.0
165°	153.2	155.2	158.3	162.4	165.4
167.5°	155.8	157.6	159.3	161.3	163.1
170°	158.3	159.3	159.3	161.3	162.3
172.5°	159.1	160.9	160.1	160.5	161.5
175°	161.3	162.3	161.3	160.3	159.3
177.5°	161.3	162.1	161.3	161.3	160.5
180°	161.3	161.3	161.3	161.3	161.3

(END OF REPORT)