

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: P644743

Luminaire Tested: OMN4DIP-SR4F0-125D150U935-CLBOOB-1DUDD-WW

Issue Date: 2/16/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: P644743  
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-SR4F0-125D150U935-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

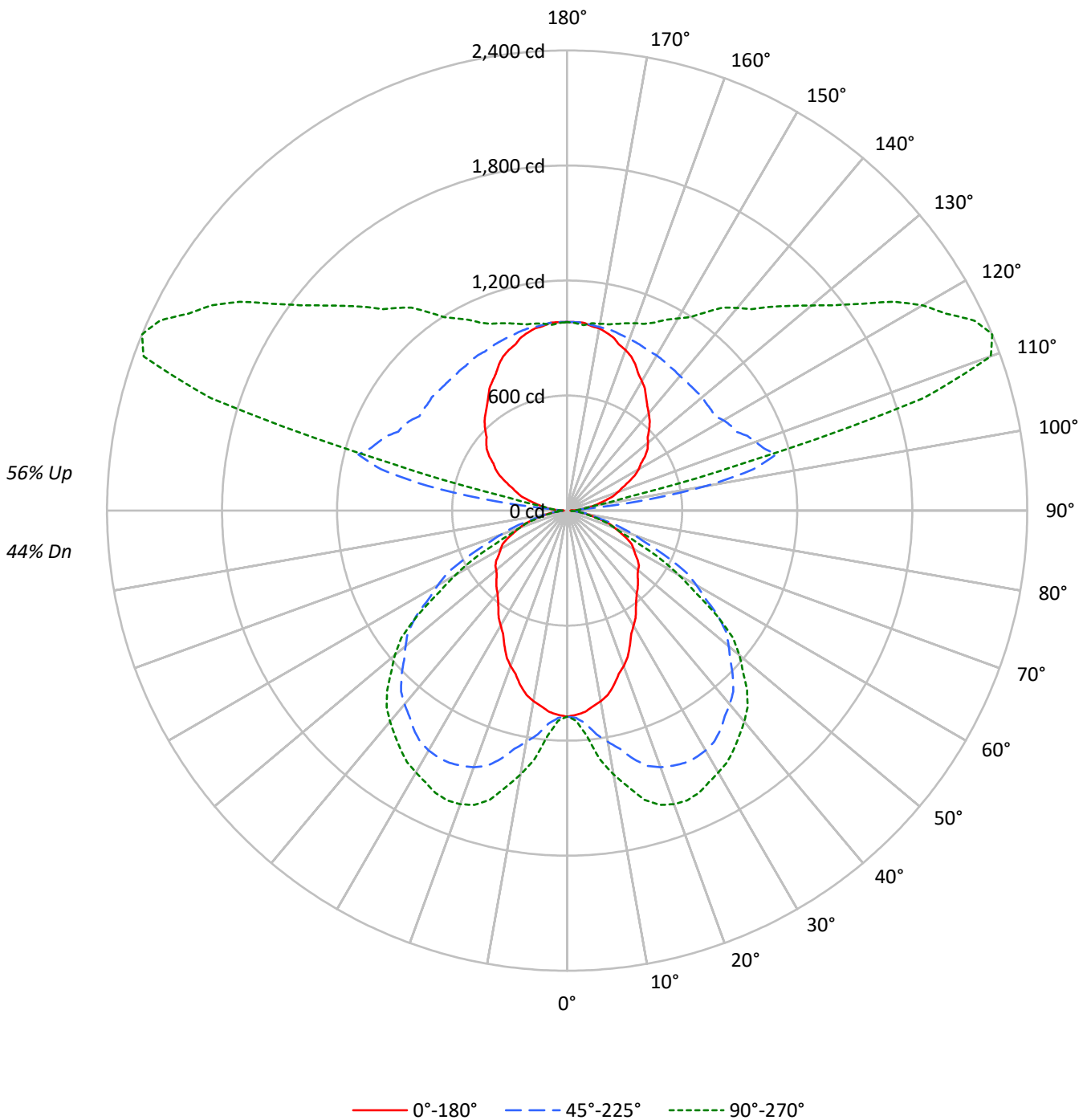
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9442.1 lumens  
Efficiency: N/A  
Efficacy: 106.6 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	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°	17350	17350	17350
5°	17092	18065	19118
10°	16552	20077	22904
15°	15749	22432	26108
20°	14814	24476	27996
25°	13801	25867	28939
30°	12905	26931	29399
35°	12315	27486	29899
40°	11904	27811	30288
45°	11926	27905	30300
50°	12115	27620	29441
55°	12662	27083	26733
60°	12913	25178	21710
65°	13081	22055	15943
70°	12505	17344	12387
75°	11223	12938	10443
80°	9530	10228	8368
85°	9263	8336	6947

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 30300 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	1.2
10°-20°	366.3	3.9
20°-30°	608.5	6.4
30°-40°	767.6	8.1
40°-50°	820.5	8.7
50°-60°	724.2	7.7
60°-70°	464.8	4.9
70°-80°	206.1	2.2
80°-90°	55.6	0.6
90°-100°	135.0	1.4
100°-110°	870.7	9.2
110°-120°	1176.7	12.5
120°-130°	956.6	10.1
130°-140°	766.3	8.1
140°-150°	603.8	6.4
150°-160°	441.5	4.7
160°-170°	274.2	2.9
170°-180°	93.5	1.0
0°-30°	1084.9	11.5
0°-40°	1852.5	19.6
0°-60°	3397.3	36.0
0°-90°	4123.8	43.7
90°-120°	2182.5	23.1
90°-150°	4509.1	47.8
90°-180°	5318.0	56.3
0°-180°	9442.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1055	1086	1115	1153	1180	99
15°	942	1086	1342	1503	1562	264
25°	775	1051	1452	1588	1624	356
35°	625	960	1394	1485	1517	392
45°	522	820	1222	1298	1327	404
55°	450	645	962	967	950	399
65°	342	433	577	469	417	335
75°	180	200	207	177	167	192
85°	50	43	45	40	38	53
90°	18	24	27	33	29	14
95°	77	110	62	63	73	76
105°	209	310	1127	1433	946	222
115°	353	423	972	2008	2344	351
125°	496	563	917	1593	1881	441
135°	606	673	916	1310	1503	467
145°	718	778	922	1141	1262	451
155°	841	872	940	1034	1083	386
165°	934	946	965	990	1008	262
175°	984	990	984	977	971	93
180°	984	984	984	984	984	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1074.6	1074.6	1074.6	1074.6	1074.6
2.5°	1066.6	1082.3	1082.6	1088.8	1096.6
5°	1054.6	1086.4	1114.6	1152.7	1179.6
7.5°	1029.6	1086.3	1176.6	1265.0	1309.0
10°	1009.6	1087.8	1224.6	1343.2	1397.0
12.5°	983.6	1087.2	1272.5	1415.4	1477.0
15°	942.2	1086.3	1342.0	1503.3	1561.9
17.5°	894.2	1081.8	1396.5	1558.1	1609.4
20°	862.2	1077.2	1424.5	1578.1	1629.4
22.5°	826.2	1066.6	1440.5	1588.0	1635.4
25°	774.7	1050.8	1452.0	1587.8	1624.4
27.5°	724.2	1028.2	1452.5	1567.6	1598.9
30°	692.2	1009.9	1444.5	1547.6	1576.9
32.5°	664.3	989.7	1428.5	1523.7	1554.9
35°	624.8	959.5	1394.5	1485.2	1516.9
37.5°	590.8	925.1	1351.5	1439.8	1477.0
40°	564.8	897.1	1319.5	1407.7	1437.0
42.5°	544.8	867.4	1281.5	1367.6	1393.0
45°	522.3	820.4	1222.1	1297.7	1327.0
47.5°	498.3	772.0	1153.6	1225.0	1244.0
50°	482.3	736.5	1099.6	1164.7	1172.1
52.5°	472.3	699.1	1047.6	1088.6	1090.1
55°	449.8	645.3	962.1	966.8	949.7
57.5°	419.8	582.6	853.7	829.3	788.2
60°	399.9	539.1	779.7	730.9	672.3
62.5°	379.9	497.6	701.7	622.7	554.3
65°	342.4	432.8	577.3	468.7	417.3
67.5°	298.9	361.4	453.3	350.6	316.4
70°	264.9	313.8	367.4	286.8	262.4
72.5°	232.9	266.1	297.4	237.1	224.4
75°	179.9	199.5	207.4	177.2	167.4
77.5°	132.5	133.4	143.9	124.8	120.0
80°	102.5	97.6	110.0	94.9	90.0
82.5°	78.5	71.6	80.0	68.9	66.0
85°	50.0	42.7	45.0	39.9	37.5
87.5°	29.5	24.8	25.5	24.6	21.7
90°	17.5	23.5	27.4	33.4	28.6
92.5°	38.3	38.5	40.2	49.3	49.3
95°	77.0	109.5	62.0	63.4	73.0
97.5°	112.3	193.3	373.2	112.3	95.3
100°	140.0	235.5	737.5	219.8	144.8
102.5°	167.7	270.0	994.8	570.0	311.0
105°	209.3	309.6	1127.2	1432.8	946.5
107.5°	253.3	326.3	1076.5	2084.2	1949.9
110°	281.0	351.1	1046.8	2189.9	2350.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	310.7	380.8	1017.1	2128.1	2400.2
115°	352.7	422.9	972.5	2008.3	2344.5
117.5°	398.0	467.4	961.4	1878.6	2224.5
120°	430.7	497.2	941.6	1779.9	2140.4
122.5°	455.4	524.8	914.9	1695.1	2026.6
125°	496.2	562.7	916.9	1592.7	1880.6
127.5°	529.6	599.3	915.6	1473.3	1758.1
130°	549.4	622.0	920.5	1391.9	1664.1
132.5°	570.1	642.7	916.5	1356.1	1579.9
135°	606.2	672.8	915.5	1309.7	1503.2
137.5°	637.2	708.5	915.5	1258.3	1424.0
140°	661.9	728.5	915.5	1228.3	1379.5
142.5°	686.7	748.4	920.5	1193.4	1335.0
145°	717.6	778.1	921.7	1141.0	1262.0
147.5°	754.7	807.9	929.2	1103.2	1196.4
150°	779.5	827.8	934.1	1078.2	1156.8
152.5°	804.2	847.7	934.1	1058.0	1122.2
155°	841.3	871.6	940.3	1034.2	1082.6
157.5°	871.0	900.0	947.7	1019.0	1054.1
160°	890.8	915.0	952.7	1009.0	1039.3
162.5°	905.7	929.8	957.6	1003.9	1024.4
165°	934.1	946.2	965.0	990.2	1008.3
167.5°	950.2	961.1	971.2	983.8	994.7
170°	965.0	971.1	971.2	983.7	989.8
172.5°	970.0	980.9	976.2	978.8	984.8
175°	983.6	989.6	983.6	977.3	971.2
177.5°	983.6	988.4	983.6	983.5	978.6
180°	983.6	983.6	983.6	983.6	983.6

(END OF REPORT)