

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: P644679

Luminaire Tested: OMN4DIP-SR4F0-125D100U930-FLLOOB-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P644679
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2206-689-19)
Test Lab: INNOVATION CENTER
Issue Date: 2/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: OMN4DIP-SR4F0-125D100U930-FLLOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - FLAT FROSTED LENS - 1250 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

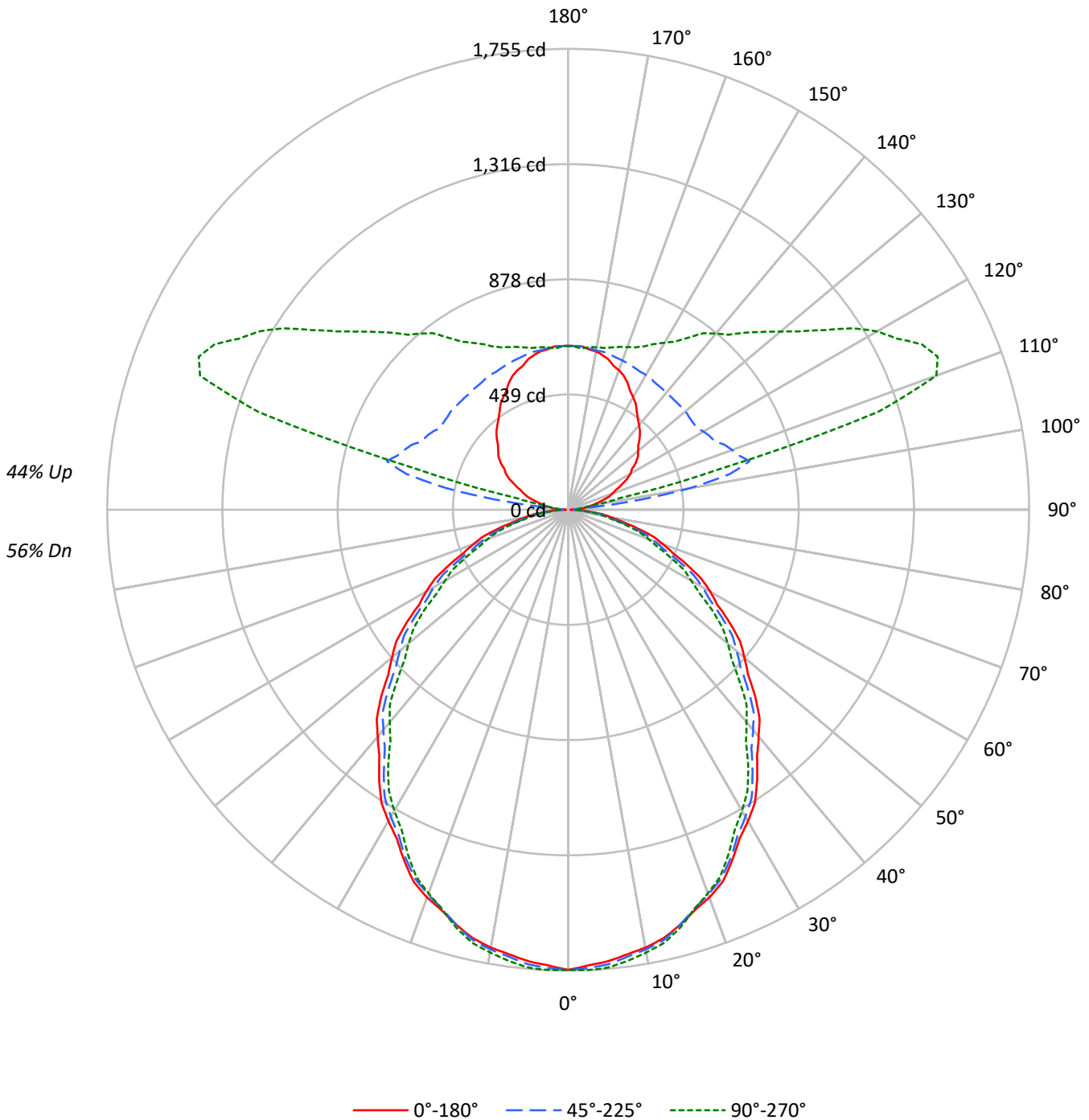
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7628.4 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 69
Input Voltage (V): 120
Input Current (A_{in}): 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	109	109	109	109	101	101	101	101	87	87	87		73	73	73		61	61	61	56
1	99	95	91	87	92	88	85	82	76	74	71		65	63	61		54	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59		57	54	51		48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50		51	47	44		43	40	38	34
4	76	65	57	51	70	61	53	48	53	47	43		45	41	38		38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37		41	36	33		35	31	28	25
6	64	52	44	38	59	49	41	36	43	37	32		37	32	29		31	28	25	22
7	59	47	39	33	55	44	37	32	39	33	29		34	29	25		29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	25		31	26	23		26	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23		28	24	21		24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21		26	22	19		23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28299	28299	28299
5°	27982	28175	28368
10°	27758	27876	28071
15°	27385	27385	27544
20°	27002	26797	26715
25°	26297	26085	25744
30°	25519	25163	24675
35°	24723	24112	23548
40°	23773	23071	22266
45°	22978	22108	21018
50°	21984	21024	19947
55°	21146	20071	18863
60°	20176	19097	17479
65°	19133	17765	16397
70°	18123	16438	15309
75°	16962	15028	14279
80°	15518	13742	13082
85°	14579	12819	11930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22978 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	2.2
10°-20°	462.7	6.1
20°-30°	672.7	8.8
30°-40°	765.3	10.0
40°-50°	746.1	9.8
50°-60°	636.9	8.3
60°-70°	462.8	6.1
70°-80°	261.7	3.4
80°-90°	82.0	1.1
90°-100°	86.9	1.1
100°-110°	552.3	7.2
110°-120°	745.6	9.8
120°-130°	606.0	7.9
130°-140°	486.0	6.4
140°-150°	383.0	5.0
150°-160°	280.1	3.7
160°-170°	173.9	2.3
170°-180°	59.3	0.8
0°-30°	1300.3	17.0
0°-40°	2065.5	27.1
0°-60°	3448.6	45.2
0°-90°	4255.1	55.8
90°-120°	1384.8	18.2
90°-150°	2859.9	37.5
90°-180°	3373.0	44.2
0°-180°	7628.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1726	1752	1738	1736	1750	164
15°	1638	1659	1638	1636	1648	462
25°	1476	1490	1464	1438	1445	679
35°	1254	1259	1223	1195	1195	783
45°	1006	1002	968	934	920	774
55°	751	749	713	679	670	670
65°	501	496	465	436	429	497
75°	272	262	241	231	229	289
85°	79	69	69	67	64	84
90°	10	16	22	24	24	11
95°	50	68	38	43	48	49
105°	134	194	715	910	600	142
115°	223	267	615	1272	1487	222
125°	315	357	579	1009	1193	279
135°	385	427	581	831	954	296
145°	455	494	585	724	800	286
155°	534	553	596	656	687	245
165°	593	600	612	628	640	166
175°	624	628	624	620	616	59
180°	624	624	624	624	624	

TEST NUMBER: P644679

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1752.7	1752.7	1752.7	1752.7	1752.7
2.5°	1737.5	1759.8	1747.0	1747.2	1754.6
5°	1726.5	1752.1	1738.4	1736.3	1750.3
7.5°	1708.4	1733.6	1717.4	1715.0	1733.2
10°	1693.1	1716.4	1700.3	1695.9	1712.2
12.5°	1672.1	1695.4	1679.3	1673.0	1689.3
15°	1638.3	1659.2	1638.3	1636.1	1647.8
17.5°	1600.1	1618.3	1593.9	1586.0	1594.9
20°	1571.5	1587.8	1559.6	1547.8	1554.8
22.5°	1535.2	1551.6	1521.4	1504.0	1512.8
25°	1476.1	1490.1	1464.2	1438.1	1445.1
27.5°	1412.7	1423.4	1397.4	1370.8	1373.1
30°	1368.8	1375.8	1349.7	1321.2	1323.5
32.5°	1323.0	1328.1	1300.1	1269.6	1270.1
35°	1254.3	1259.0	1223.3	1194.7	1194.7
37.5°	1181.4	1184.2	1146.1	1115.0	1111.7
40°	1127.9	1132.6	1094.6	1063.4	1056.4
42.5°	1078.3	1079.3	1045.0	1013.8	1004.9
45°	1006.3	1001.7	968.2	934.5	920.5
47.5°	928.6	928.6	890.4	856.7	843.7
50°	875.2	875.2	837.0	803.4	794.1
52.5°	825.6	823.7	787.4	753.7	740.7
55°	751.2	748.8	713.0	679.4	670.1
57.5°	672.5	672.5	639.1	603.1	592.8
60°	624.8	624.8	591.4	555.3	541.3
62.5°	573.3	571.4	538.0	505.8	497.4
65°	500.8	496.1	465.0	436.2	429.2
67.5°	431.6	427.0	393.9	370.9	366.3
70°	383.9	379.3	348.2	329.0	324.3
72.5°	338.1	331.6	304.3	288.9	284.3
75°	271.9	262.5	240.9	231.3	228.9
77.5°	208.9	193.0	184.1	177.4	175.0
80°	166.9	152.9	147.8	143.0	140.7
82.5°	130.7	116.7	115.4	112.5	110.2
85°	78.7	69.4	69.2	66.7	64.4
87.5°	34.3	30.0	31.1	31.4	31.4
90°	9.5	15.7	22.2	23.7	23.7
92.5°	26.6	25.3	27.8	34.4	35.6
95°	50.5	68.0	38.5	42.6	47.9
97.5°	72.4	121.4	237.4	72.3	61.2
100°	91.3	149.5	467.8	138.7	92.6
102.5°	108.2	169.5	631.1	362.0	197.5
105°	133.6	194.1	715.1	909.7	600.4
107.5°	161.4	206.3	682.9	1322.9	1236.9
110°	178.3	222.0	664.0	1389.9	1491.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	197.1	240.8	645.2	1350.7	1522.6
115°	223.0	266.7	614.6	1272.4	1487.3
117.5°	252.0	295.0	607.5	1190.1	1411.2
120°	274.0	313.9	594.9	1127.6	1357.8
122.5°	287.8	332.6	579.2	1073.8	1285.6
125°	314.8	357.0	579.2	1008.8	1193.0
127.5°	335.2	380.0	580.0	933.4	1115.3
130°	347.7	393.8	583.2	883.0	1055.6
132.5°	361.5	407.6	581.3	860.3	1002.2
135°	384.6	426.8	580.8	830.8	953.6
137.5°	404.2	449.5	580.8	798.2	903.4
140°	419.9	462.1	580.8	779.2	875.1
142.5°	435.6	474.7	583.9	757.1	846.8
145°	455.2	493.6	584.7	723.8	800.5
147.5°	478.8	512.5	589.4	699.9	758.9
150°	494.5	525.1	592.6	683.9	733.8
152.5°	510.1	537.8	592.6	671.2	711.9
155°	533.7	552.9	596.5	656.0	686.7
157.5°	552.5	570.9	601.2	646.4	668.7
160°	565.1	580.4	604.3	640.1	659.3
162.5°	574.5	589.9	607.5	636.8	649.9
165°	592.6	600.2	612.2	628.1	639.6
167.5°	602.8	609.7	616.1	624.1	631.0
170°	612.2	616.0	616.1	624.0	627.9
172.5°	615.3	622.2	619.2	620.9	624.7
175°	624.0	627.8	624.0	619.9	616.1
177.5°	624.0	627.0	624.0	623.9	620.8
180°	624.0	624.0	624.0	624.0	624.0

(END OF REPORT)