

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: P644799

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

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P644799
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-SR4F0-125D50U930-FLLOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - FLAT FROSTED LENS - 1250 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

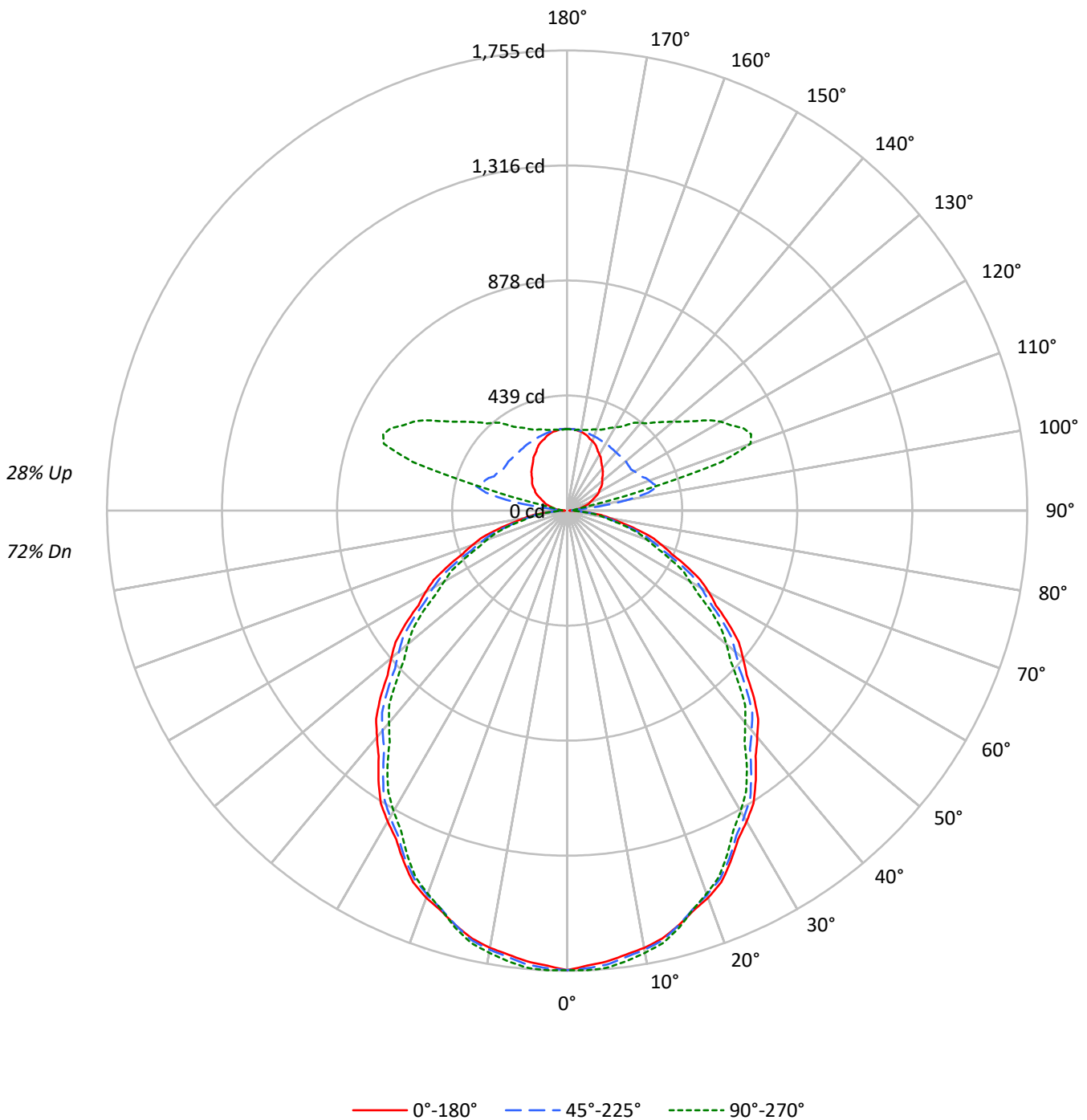
Lumens per Lamp: N/A
Luminaire Lumens: 5948.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	72	
1	103	98	94	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	86	80	74	88	82	76	71	74	69	65	66	63	60	59	57	54	54	54	54	51	
3	86	76	68	62	81	72	65	60	65	60	55	59	54	51	53	49	46	46	46	46	43	
4	78	67	59	53	74	64	57	51	58	52	47	52	48	44	47	43	40	40	40	40	37	
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	43	39	35	35	35	35	32	
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	35	31	31	31	31	29	
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	36	31	28	28	28	28	25	
8	57	45	37	31	54	43	36	30	39	33	29	36	31	27	33	28	25	25	25	25	23	
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	23	23	23	23	21	
10	50	38	30	25	48	36	29	25	33	27	23	31	26	22	28	24	21	21	21	21	19	

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	2.8
10°-20°	462.7	7.8
20°-30°	672.7	11.3
30°-40°	765.3	12.9
40°-50°	746.1	12.5
50°-60°	636.9	10.7
60°-70°	462.8	7.8
70°-80°	261.7	4.4
80°-90°	81.3	1.4
90°-100°	48.4	0.8
100°-110°	278.4	4.7
110°-120°	373.7	6.3
120°-130°	303.4	5.1
130°-140°	242.6	4.1
140°-150°	191.1	3.2
150°-160°	139.7	2.3
160°-170°	86.8	1.5
170°-180°	29.6	0.5
0°-30°	1300.3	21.9
0°-40°	2065.5	34.7
0°-60°	3448.6	58.0
0°-90°	4254.4	71.5
90°-120°	700.6	11.8
90°-150°	1437.6	24.2
90°-180°	1694.0	28.5
0°-180°	5948.2	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	14	18	18	18	10
95°	35	39	23	25	26	32
105°	73	100	359	455	300	78
115°	115	136	308	635	742	115
125°	159	180	290	503	595	141
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	



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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	29.6	30.4	30.3	30.3
90°	9.5	13.8	18.2	17.8	17.8
92.5°	21.9	18.7	19.1	22.1	21.8
95°	34.7	38.8	22.8	24.8	26.3
97.5°	44.5	65.4	121.8	38.2	31.8
100°	53.9	79.4	235.8	70.4	47.4
102.5°	61.4	88.5	317.2	181.8	98.8
105°	72.6	100.5	359.1	455.0	299.6
107.5°	86.2	106.5	343.1	661.2	617.1
110°	93.7	114.4	333.7	694.6	744.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.1	123.8	324.3	675.1	759.7
115°	114.8	135.5	307.8	634.8	742.0
117.5°	129.3	149.6	304.3	593.8	704.1
120°	140.3	159.0	298.0	562.6	677.4
122.5°	146.2	168.3	290.2	535.7	641.4
125°	159.4	180.5	290.2	503.3	595.2
127.5°	168.4	191.7	290.6	465.7	556.4
130°	174.7	197.7	292.2	440.5	526.7
132.5°	180.6	203.6	290.2	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)