

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: P645211

Luminaire Tested: OMN4DP-SR4F0-100D930-FLL-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P645211
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-689-19)
Test Lab: INNOVATION CENTER
Issue Date: 2/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: OMN4DP-SR4F0-100D930-FLL-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - FLAT FROSTED LENS - 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

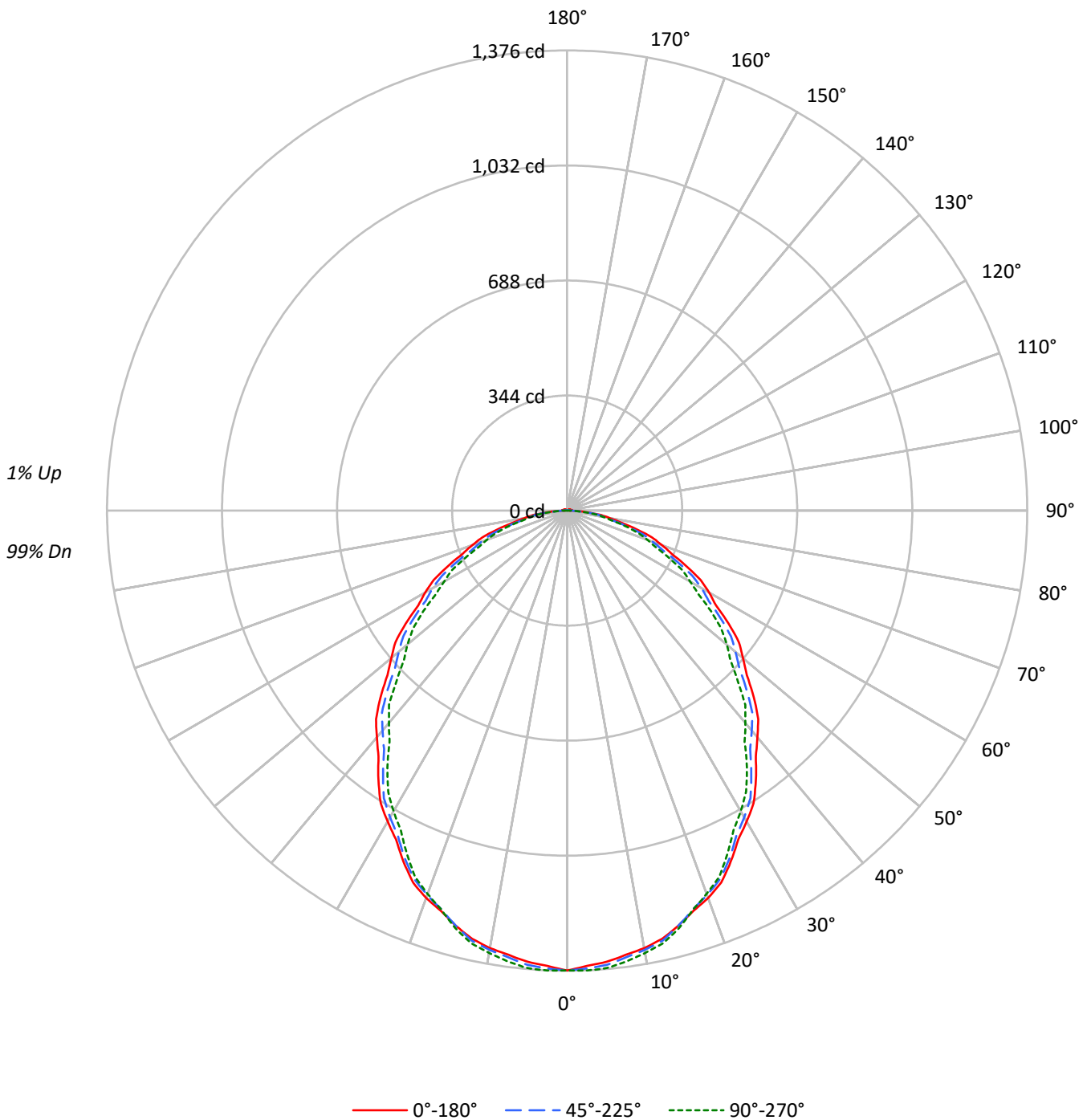
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3353.8 lumens
Efficiency: N/A
Efficacy: 112.2 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: Direct

Input Watts (W): 29.9
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	63	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	50	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	49	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22201	22201	22201
5°	21951	22102	22255
10°	21776	21868	22022
15°	21483	21483	21608
20°	21182	21021	20957
25°	20630	20462	20197
30°	20020	19740	19356
35°	19395	18916	18473
40°	18649	18099	17466
45°	18025	17342	16488
50°	17246	16493	15646
55°	16588	15744	14798
60°	15826	14980	13714
65°	15007	13937	12863
70°	14219	12892	12010
75°	13306	11784	11204
80°	12171	10786	10265
85°	11430	10059	9355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	3.9
10°-20°	363.0	10.8
20°-30°	527.7	15.7
30°-40°	600.3	17.9
40°-50°	585.3	17.5
50°-60°	499.6	14.9
60°-70°	363.1	10.8
70°-80°	205.3	6.1
80°-90°	63.2	1.9
90°-100°	8.0	0.2
100°-110°	4.4	0.1
110°-120°	2.7	0.1
120°-130°	1.6	0.0
130°-140°	0.2	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1020.0	30.4
0°-40°	1620.4	48.3
0°-60°	2705.3	80.7
0°-90°	3336.9	99.5
90°-120°	15.1	0.5
90°-150°	16.9	0.5
90°-180°	17.0	0.5
0°-180°	3353.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1354	1374	1364	1362	1373	128
15°	1285	1302	1285	1284	1293	362
25°	1158	1169	1149	1128	1134	533
35°	984	988	960	937	937	614
45°	789	786	760	733	722	608
55°	589	587	559	533	526	526
65°	393	389	365	342	337	390
75°	213	206	189	181	180	226
85°	62	54	54	52	50	66
90°	8	9	11	9	9	8
95°	15	8	6	6	4	11
105°	9	6	4	2	0	11
115°	6	4	2	0	0	6
125°	4	4	2	0	0	3
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.0	1375.0	1375.0	1375.0	1375.0
2.5°	1363.0	1380.6	1370.5	1370.6	1376.5
5°	1354.4	1374.5	1363.7	1362.1	1373.1
7.5°	1340.2	1359.9	1347.3	1345.4	1359.6
10°	1328.2	1346.5	1333.8	1330.4	1343.2
12.5°	1311.7	1330.0	1317.4	1312.4	1325.2
15°	1285.2	1301.6	1285.2	1283.5	1292.7
17.5°	1255.2	1269.5	1250.4	1244.2	1251.1
20°	1232.8	1245.6	1223.4	1214.2	1219.7
22.5°	1204.4	1217.2	1193.5	1179.8	1186.8
25°	1158.0	1168.9	1148.6	1128.2	1133.7
27.5°	1108.2	1116.6	1096.2	1075.3	1077.2
30°	1073.8	1079.3	1058.8	1036.4	1038.2
32.5°	1037.9	1041.9	1019.9	996.0	996.3
35°	984.0	987.7	959.7	937.2	937.2
37.5°	926.7	928.9	899.1	874.7	872.1
40°	884.8	888.5	858.7	834.2	828.7
42.5°	845.9	846.7	819.7	795.3	788.3
45°	789.4	785.8	759.5	733.1	722.1
47.5°	728.5	728.5	698.5	672.1	661.9
50°	686.6	686.6	656.6	630.3	622.9
52.5°	647.6	646.2	617.7	591.3	581.0
55°	589.3	587.4	559.3	533.0	525.7
57.5°	527.5	527.5	501.4	473.1	465.1
60°	490.1	490.1	463.9	435.6	424.7
62.5°	449.7	448.3	422.0	396.8	390.2
65°	392.8	389.2	364.8	342.2	336.7
67.5°	338.6	334.9	309.0	291.0	287.3
70°	301.2	297.5	273.1	258.1	254.4
72.5°	265.3	260.1	238.7	226.6	223.0
75°	213.3	205.9	188.9	181.4	179.6
77.5°	163.9	151.4	144.4	139.1	137.3
80°	130.9	120.0	116.0	112.2	110.4
82.5°	102.5	91.5	90.5	88.3	86.4
85°	61.7	54.4	54.3	52.3	50.5
87.5°	26.9	22.9	23.2	22.8	22.8
90°	7.5	9.3	11.2	9.4	9.4
92.5°	13.5	9.4	8.2	7.8	6.4
95°	15.0	7.6	5.6	5.6	3.7
97.5°	13.1	7.6	5.2	3.3	1.9
100°	13.1	7.6	3.7	1.9	1.9
102.5°	11.6	6.1	3.7	1.8	0.4
105°	9.4	5.7	3.7	1.8	0.0
107.5°	9.0	5.7	3.7	1.8	0.0
110°	7.5	5.7	3.7	1.8	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.5	5.7	3.7	1.8	0.0
115°	5.6	3.8	1.9	0.0	0.0
117.5°	5.6	3.8	1.9	0.0	0.0
120°	5.6	3.8	1.9	0.0	0.0
122.5°	4.1	3.7	1.9	0.0	0.0
125°	3.7	3.7	1.9	0.0	0.0
127.5°	1.9	3.3	1.9	0.0	0.0
130°	1.9	1.9	1.9	0.0	0.0
132.5°	0.4	0.4	0.4	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)