

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: P645247

Luminaire Tested: OMN4DP-SR4F0-50D930-FLL-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P645247
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-SR4F0-50D930-FLL-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - FLAT FROSTED LENS - 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

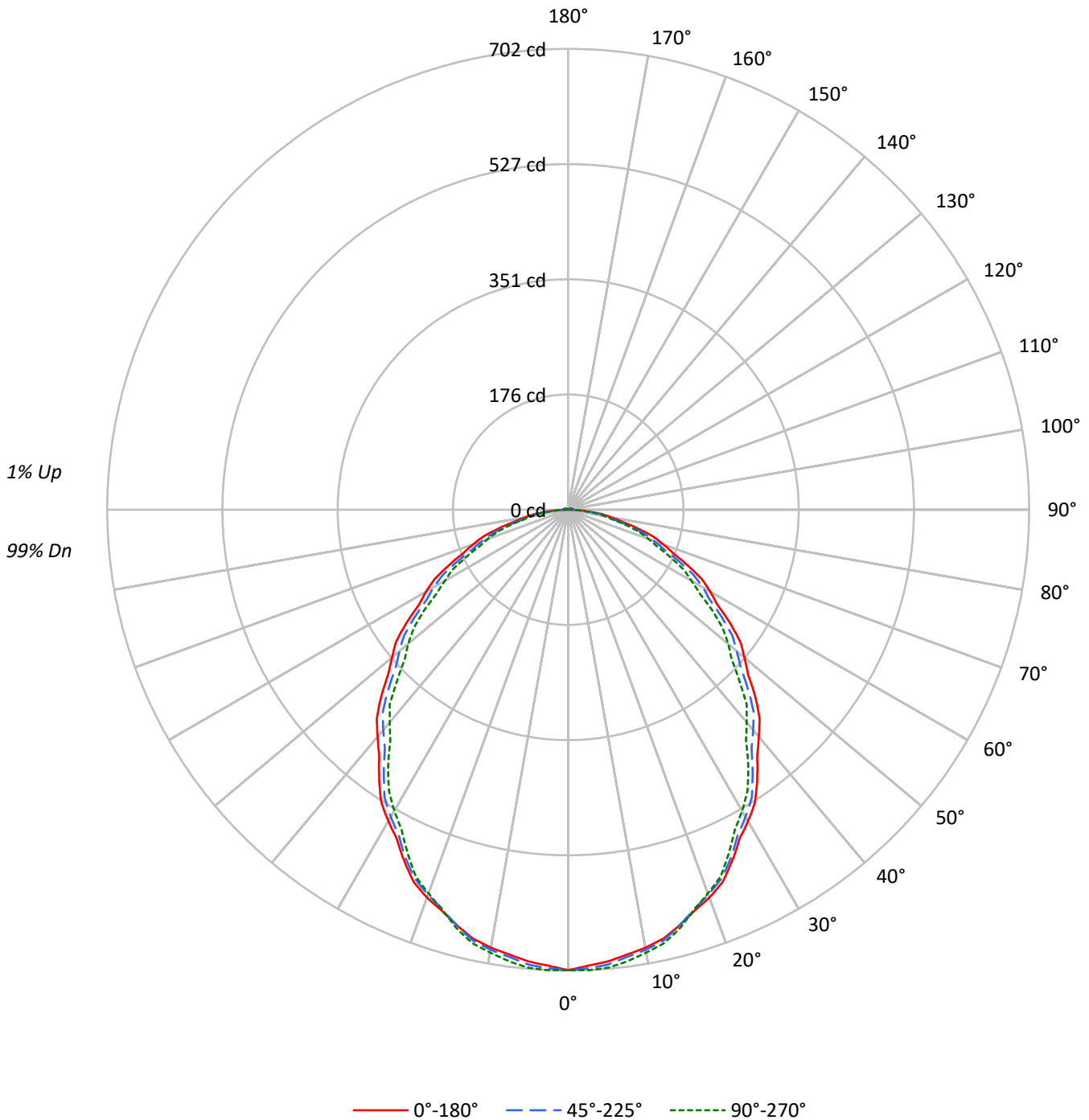
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1710.7 lumens
Efficiency: N/A
Efficacy: 119.6 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: Direct

Input Watts (W): 14.3
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	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°	11323	11323	11323
5°	11196	11274	11352
10°	11108	11155	11232
15°	10957	10957	11022
20°	10804	10723	10689
25°	10523	10438	10302
30°	10211	10069	9874
35°	9893	9648	9424
40°	9512	9232	8909
45°	9195	8846	8410
50°	8796	8412	7983
55°	8462	8031	7547
60°	8073	7640	6994
65°	7656	7110	6564
70°	7251	6576	6128
75°	6787	6014	5714
80°	6211	5504	5235
85°	5835	5132	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9195 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.9
10°-20°	185.1	10.8
20°-30°	269.2	15.7
30°-40°	306.2	17.9
40°-50°	298.6	17.5
50°-60°	254.8	14.9
60°-70°	185.2	10.8
70°-80°	104.7	6.1
80°-90°	32.2	1.9
90°-100°	4.1	0.2
100°-110°	2.3	0.1
110°-120°	1.4	0.1
120°-130°	0.8	0.0
130°-140°	0.1	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°	520.3	30.4
0°-40°	826.5	48.3
0°-60°	1379.9	80.7
0°-90°	1702.1	99.5
90°-120°	7.7	0.5
90°-150°	8.6	0.5
90°-180°	9.0	0.5
0°-180°	1710.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	701	701	701	701	701	
5°	691	701	696	695	700	65
15°	656	664	656	655	659	185
25°	591	596	586	576	578	272
35°	502	504	490	478	478	313
45°	403	401	387	374	368	310
55°	301	300	285	272	268	268
65°	200	198	186	175	172	199
75°	109	105	96	92	92	115
85°	32	28	28	27	26	34
90°	4	5	6	5	5	4
95°	8	4	3	3	2	6
105°	5	3	2	1	0	5
115°	3	2	1	0	0	3
125°	2	2	1	0	0	2
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°	701.3	701.3	701.3	701.3	701.3
2.5°	695.2	704.2	699.1	699.1	702.1
5°	690.8	701.1	695.6	694.8	700.4
7.5°	683.6	693.7	687.2	686.2	693.5
10°	677.5	686.8	680.4	678.6	685.1
12.5°	669.1	678.4	672.0	669.4	676.0
15°	655.5	663.9	655.5	654.7	659.4
17.5°	640.3	647.6	637.8	634.6	638.2
20°	628.8	635.4	624.1	619.3	622.1
22.5°	614.3	620.9	608.8	601.8	605.4
25°	590.7	596.3	585.9	575.5	578.3
27.5°	565.3	569.6	559.2	548.5	549.4
30°	547.7	550.5	540.1	528.7	529.6
32.5°	529.4	531.4	520.2	508.0	508.2
35°	501.9	503.8	489.5	478.1	478.1
37.5°	472.7	473.8	458.6	446.2	444.9
40°	451.3	453.2	438.0	425.5	422.7
42.5°	431.5	431.9	418.1	405.6	402.1
45°	402.7	400.8	387.4	373.9	368.3
47.5°	371.6	371.6	356.3	342.8	337.6
50°	350.2	350.2	334.9	321.5	317.8
52.5°	330.3	329.6	315.1	301.6	296.4
55°	300.6	299.6	285.3	271.9	268.1
57.5°	269.1	269.1	255.7	241.3	237.2
60°	250.0	250.0	236.6	222.2	216.6
62.5°	229.4	228.6	215.3	202.4	199.0
65°	200.4	198.5	186.1	174.6	171.8
67.5°	172.7	170.8	157.6	148.4	146.6
70°	153.6	151.8	139.3	131.6	129.8
72.5°	135.3	132.7	121.8	115.6	113.7
75°	108.8	105.0	96.4	92.5	91.6
77.5°	83.6	77.2	73.7	71.0	70.0
80°	66.8	61.2	59.2	57.2	56.3
82.5°	52.3	46.7	46.2	45.0	44.1
85°	31.5	27.8	27.7	26.7	25.8
87.5°	13.7	11.7	11.8	11.6	11.6
90°	3.8	4.7	5.7	4.8	4.8
92.5°	6.9	4.8	4.2	4.0	3.2
95°	7.6	3.9	2.9	2.8	1.9
97.5°	6.7	3.9	2.7	1.7	1.0
100°	6.7	3.9	1.9	1.0	1.0
102.5°	5.9	3.1	1.9	0.9	0.2
105°	4.8	2.9	1.9	0.9	0.0
107.5°	4.6	2.9	1.9	0.9	0.0
110°	3.8	2.9	1.9	0.9	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	2.9	1.9	0.9	0.0
115°	2.9	1.9	1.0	0.0	0.0
117.5°	2.9	1.9	1.0	0.0	0.0
120°	2.9	1.9	1.0	0.0	0.0
122.5°	2.1	1.9	1.0	0.0	0.0
125°	1.9	1.9	1.0	0.0	0.0
127.5°	1.0	1.7	1.0	0.0	0.0
130°	1.0	1.0	1.0	0.0	0.0
132.5°	0.2	0.2	0.2	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)