

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: P645237

Luminaire Tested: OMN4DP-SR4F0-125D940-FLL-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P645237
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-SR4F0-125D940-FLL-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - FLAT FROSTED LENS - 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

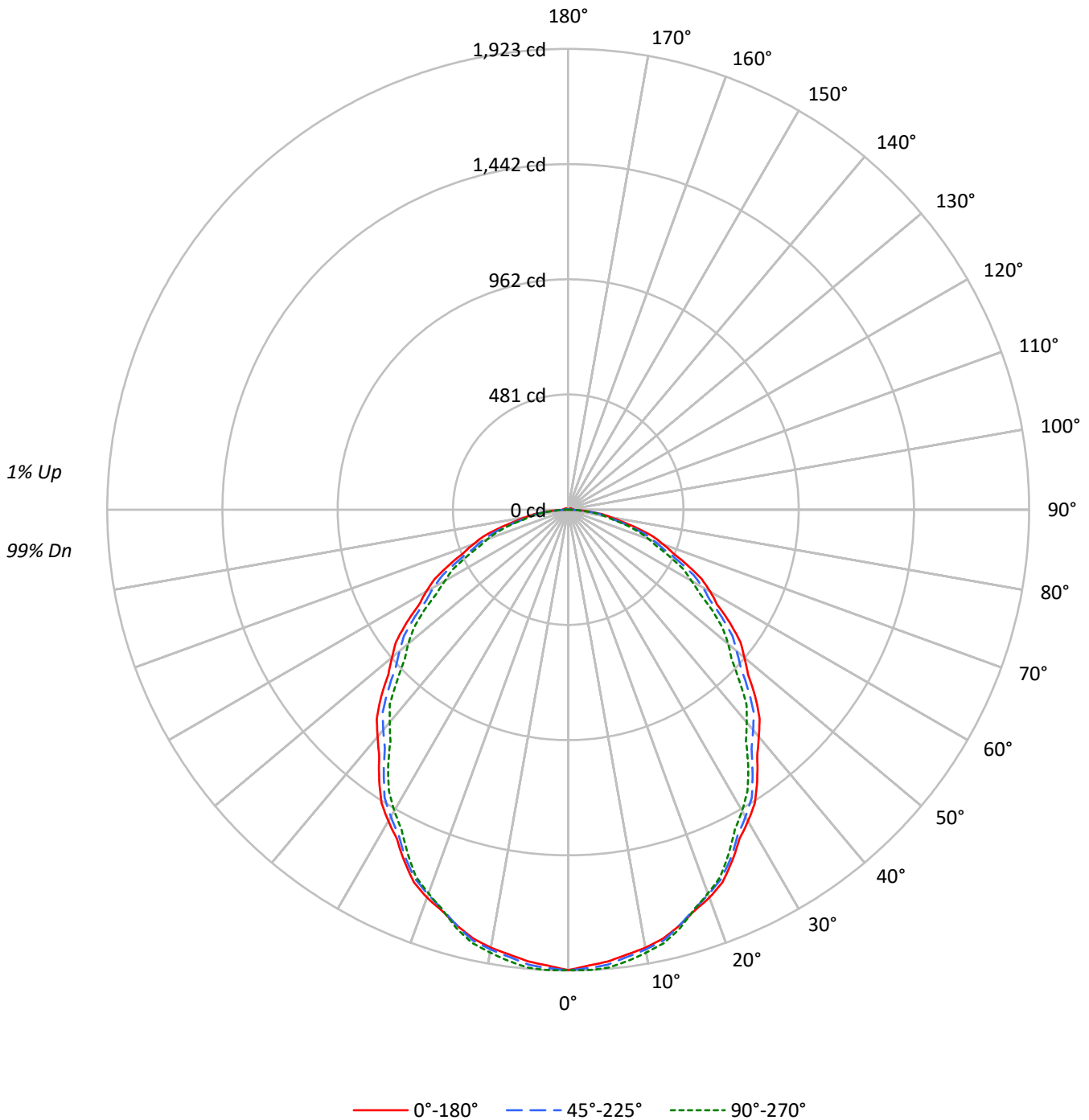
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4685.8 lumens
Efficiency: N/A
Efficacy: 117.1 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): 40
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										
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	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°	31018	31018	31018
5°	30669	30882	31092
10°	30424	30554	30767
15°	30014	30014	30190
20°	29594	29369	29280
25°	28823	28589	28217
30°	27971	27579	27044
35°	27098	26428	25811
40°	26057	25286	24405
45°	25186	24231	23037
50°	24094	23044	21863
55°	23175	21999	20673
60°	22113	20931	19159
65°	20970	19473	17975
70°	19865	18014	16782
75°	18590	16469	15652
80°	17015	15063	14338
85°	15987	14042	13079

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25186 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	3.9
10°-20°	507.1	10.8
20°-30°	737.3	15.7
30°-40°	838.7	17.9
40°-50°	817.8	17.5
50°-60°	698.1	14.9
60°-70°	507.3	10.8
70°-80°	286.9	6.1
80°-90°	88.3	1.9
90°-100°	11.1	0.2
100°-110°	6.2	0.1
110°-120°	3.8	0.1
120°-130°	2.2	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°	1425.2	30.4
0°-40°	2263.9	48.3
0°-60°	3779.8	80.7
0°-90°	4662.3	99.5
90°-120°	21.1	0.5
90°-150°	23.6	0.5
90°-180°	24.0	0.5
0°-180°	4685.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1921	1921	1921	1921	1921	
5°	1892	1920	1905	1903	1918	179
15°	1796	1819	1796	1793	1806	506
25°	1618	1633	1605	1576	1584	744
35°	1375	1380	1341	1310	1310	858
45°	1103	1098	1061	1024	1009	849
55°	823	821	782	745	734	735
65°	549	544	510	478	470	545
75°	298	288	264	254	251	316
85°	86	76	76	73	71	92
90°	10	13	16	13	13	11
95°	21	11	8	8	5	16
105°	13	8	5	3	0	15
115°	8	5	3	0	0	9
125°	5	5	3	0	0	4
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°	1921.1	1921.1	1921.1	1921.1	1921.1
2.5°	1904.3	1928.9	1914.8	1915.0	1923.1
5°	1892.3	1920.4	1905.4	1903.1	1918.4
7.5°	1872.4	1900.0	1882.4	1879.7	1899.6
10°	1855.7	1881.3	1863.6	1858.7	1876.6
12.5°	1832.7	1858.3	1840.6	1833.6	1851.5
15°	1795.6	1818.6	1795.6	1793.3	1806.1
17.5°	1753.8	1773.7	1747.0	1738.3	1748.0
20°	1722.4	1740.3	1709.3	1696.5	1704.1
22.5°	1682.7	1700.6	1667.5	1648.4	1658.1
25°	1617.9	1633.2	1604.8	1576.2	1583.9
27.5°	1548.3	1560.1	1531.6	1502.4	1505.0
30°	1500.3	1507.9	1479.3	1448.0	1450.6
32.5°	1450.1	1455.7	1425.0	1391.5	1392.0
35°	1374.8	1379.9	1340.8	1309.5	1309.5
37.5°	1294.8	1297.9	1256.1	1222.1	1218.5
40°	1236.3	1241.4	1199.7	1165.5	1157.9
42.5°	1181.9	1182.9	1145.3	1111.1	1101.4
45°	1103.0	1097.9	1061.2	1024.2	1008.9
47.5°	1017.8	1017.8	975.9	939.0	924.7
50°	959.2	959.2	917.4	880.6	870.4
52.5°	904.9	902.8	863.0	826.1	811.8
55°	823.3	820.8	781.5	744.7	734.4
57.5°	737.1	737.1	700.5	661.0	649.8
60°	684.8	684.8	648.2	608.6	593.3
62.5°	628.3	626.3	589.6	554.4	545.2
65°	548.9	543.8	509.7	478.1	470.5
67.5°	473.1	468.0	431.8	406.6	401.5
70°	420.8	415.7	381.6	360.6	355.5
72.5°	370.6	363.5	333.5	316.7	311.6
75°	298.0	287.7	264.0	253.5	250.9
77.5°	229.0	211.6	201.8	194.4	191.8
80°	183.0	167.6	162.0	156.8	154.2
82.5°	143.2	127.9	126.5	123.3	120.8
85°	86.3	76.0	75.8	73.1	70.6
87.5°	37.6	32.0	32.4	31.9	31.9
90°	10.5	13.0	15.7	13.1	13.1
92.5°	18.8	13.2	11.5	10.9	8.9
95°	20.9	10.7	7.8	7.8	5.2
97.5°	18.3	10.6	7.3	4.7	2.6
100°	18.3	10.6	5.2	2.6	2.6
102.5°	16.2	8.5	5.2	2.6	0.5
105°	13.1	8.0	5.2	2.6	0.0
107.5°	12.5	7.9	5.2	2.6	0.0
110°	10.5	7.9	5.2	2.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.5	7.9	5.2	2.6	0.0
115°	7.8	5.3	2.6	0.0	0.0
117.5°	7.8	5.3	2.6	0.0	0.0
120°	7.8	5.3	2.6	0.0	0.0
122.5°	5.8	5.2	2.6	0.0	0.0
125°	5.2	5.2	2.6	0.0	0.0
127.5°	2.6	4.7	2.6	0.0	0.0
130°	2.6	2.6	2.6	0.0	0.0
132.5°	0.5	0.5	0.5	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)