

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: P645270

Luminaire Tested: OMN4DP-SR4F0-75D935-WBM-1DUDD-WW

Issue Date: 9/2/2020



Test Information

Test Method: LM-79-2019
Report Number: P645270
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-689-27)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: OMN4DP-SR4F0-75D935-WBM-1DUDD-WW
Description: NEO-RAY CIRQUE 4-INCH DIAMETER LINEAR LED LUMINAIRE
DOWNLIGHT - WHITE BAFFLE WITH MEDIUM OPTIC - 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

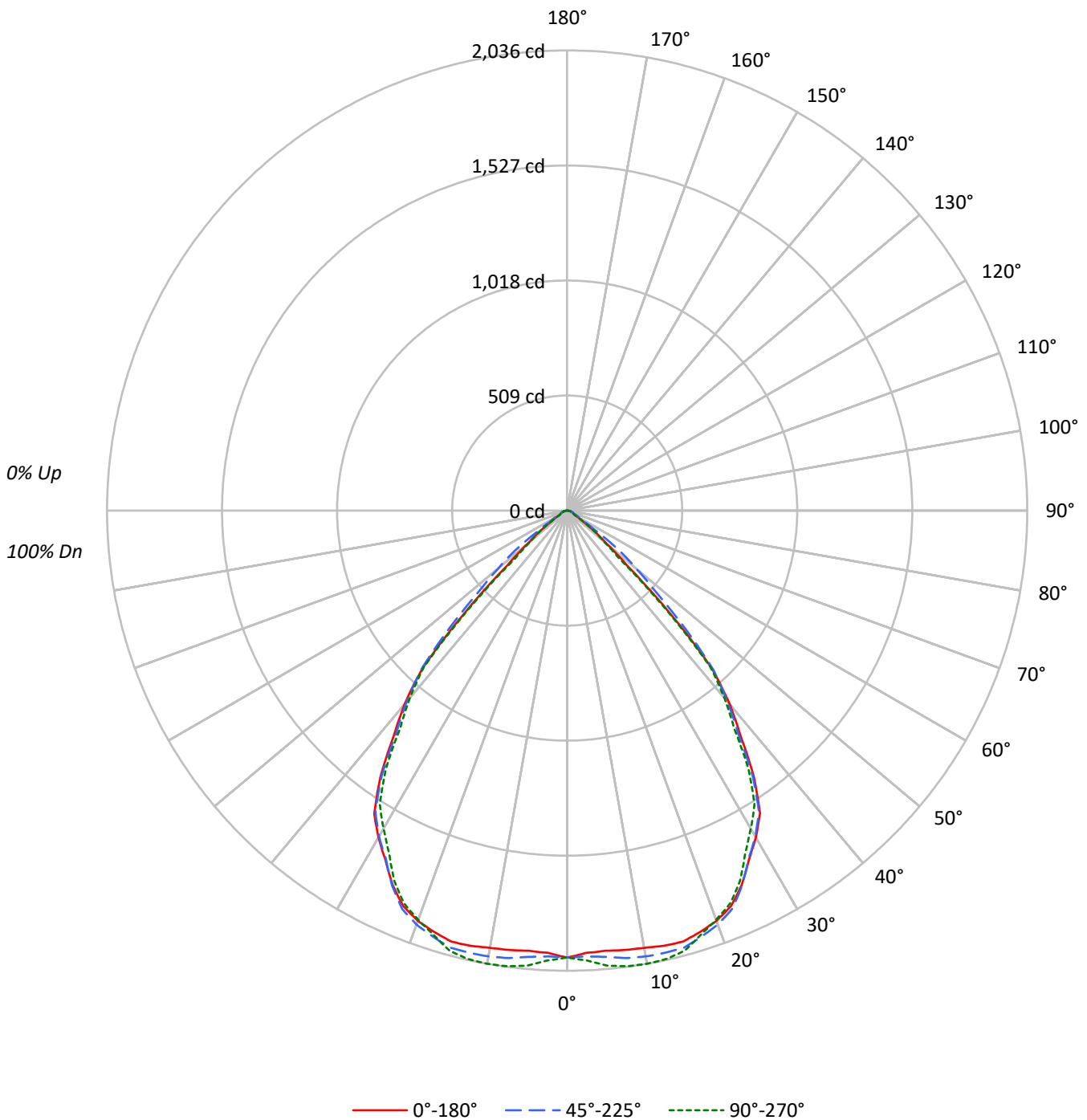
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3180.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.21 / 1.19
Luminous Opening: Rectangular (W 0.21' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
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

TEST NUMBER: P645270
CATALOG NUMBER: OMN4DP-SR4F0-75D935-WBM-1DUDD-WW

Luminous Intensity Polar Plot





TEST NUMBER: P645270

CATALOG NUMBER: OMN4DP-SR4F0-75D935-WBM-1DUDD-WW

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83					83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	82	79	77	75					75			
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62					62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25544	25544	25544
5°	25353	25700	26202
10°	25762	26270	26700
15°	26405	26765	26944
20°	26550	26794	26488
25°	26041	26105	25786
30°	24899	24832	24232
35°	22730	22543	22073
40°	18883	18607	18254
45°	11861	13492	11316
50°	4549	7990	4220
55°	2146	3353	2180
60°	1039	1692	922
65°	957	1002	865
70°	955	955	842
75°	968	968	818
80°	997	885	774
85°	1097	889	667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13492 cd/sqm



TEST NUMBER: P645270

CATALOG NUMBER: OMN4DP-SR4F0-75D935-WBM-1DUDD-WW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	6.0
10°-20°	563.4	17.7
20°-30°	836.9	26.3
30°-40°	876.0	27.5
40°-50°	530.6	16.7
50°-60°	122.4	3.8
60°-70°	33.6	1.1
70°-80°	19.7	0.6
80°-90°	6.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	1590.8	50.0
0°-40°	2466.8	77.6
0°-60°	3119.8	98.1
0°-90°	3180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1955	2000	1982	1990	2021	187
15°	1975	2034	2002	1986	2015	556
25°	1827	1881	1832	1785	1809	837
35°	1442	1463	1430	1397	1400	886
45°	649	738	739	713	620	499
55°	95	108	149	103	97	99
65°	31	33	33	30	28	31
75°	19	19	19	18	16	20
85°	7	7	6	6	4	8
90°	0	0	0	0	0	



TEST NUMBER: P645270

CATALOG NUMBER: OMN4DP-SR4F0-75D935-WBM-1DUDD-WW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1977.6	1977.6	1977.6	1977.6	1977.6
2.5°	1958.6	1993.5	1974.0	1975.6	1991.9
5°	1955.3	2000.4	1982.1	1990.2	2020.8
7.5°	1960.6	2007.8	1997.0	1999.8	2033.3
10°	1964.2	2013.7	2002.9	2002.2	2035.7
12.5°	1972.6	2024.4	2004.1	1999.8	2032.1
15°	1974.6	2034.3	2001.5	1985.7	2014.9
17.5°	1955.3	2021.1	1976.7	1944.2	1967.5
20°	1931.5	1998.4	1949.3	1903.7	1927.0
22.5°	1894.5	1960.3	1907.6	1858.4	1882.9
25°	1827.2	1881.1	1831.7	1784.6	1809.3
27.5°	1742.0	1779.9	1737.6	1692.9	1706.9
30°	1669.4	1707.2	1664.9	1618.9	1624.7
32.5°	1588.4	1620.4	1579.1	1537.8	1542.5
35°	1441.5	1463.4	1429.6	1396.9	1399.8
37.5°	1262.8	1265.7	1242.9	1213.1	1213.7
40°	1119.9	1128.6	1103.5	1079.7	1082.6
42.5°	949.5	983.9	959.3	937.9	938.5
45°	649.3	738.1	738.6	712.7	619.5
47.5°	358.6	461.4	527.5	409.0	308.9
50°	226.4	291.9	397.6	239.1	210.0
52.5°	162.0	191.4	290.4	169.1	154.0
55°	95.3	108.4	148.9	102.6	96.8
57.5°	58.1	69.4	87.0	68.6	58.4
60°	40.2	50.4	65.5	45.9	35.7
62.5°	35.4	38.6	51.2	36.6	33.4
65°	31.3	32.7	32.8	29.8	28.3
67.5°	27.7	29.2	27.7	26.2	24.7
70°	25.3	26.8	25.3	23.8	22.3
72.5°	22.9	24.4	22.9	21.4	20.0
75°	19.4	19.4	19.4	17.8	16.4
77.5°	15.8	15.8	15.5	14.3	12.8
80°	13.4	13.4	11.9	11.9	10.4
82.5°	11.0	11.0	9.5	9.5	8.0
85°	7.4	7.4	6.0	5.9	4.5
87.5°	3.6	3.6	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)