

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: P645234

Luminaire Tested: OMN4DP-SR4F0-125D935-WBM-1DUDD-WW

Issue Date: 9/2/2020



Test Information

Test Method: LM-79-2019
Report Number: P645234
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-SR4F0-125D935-WBM-1DUDD-WW
Description: NEO-RAY CIRQUE 4-INCH DIAMETER LINEAR LED LUMINAIRE
DOWNLIGHT - WHITE BAFFLE WITH MEDIUM OPTIC - 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

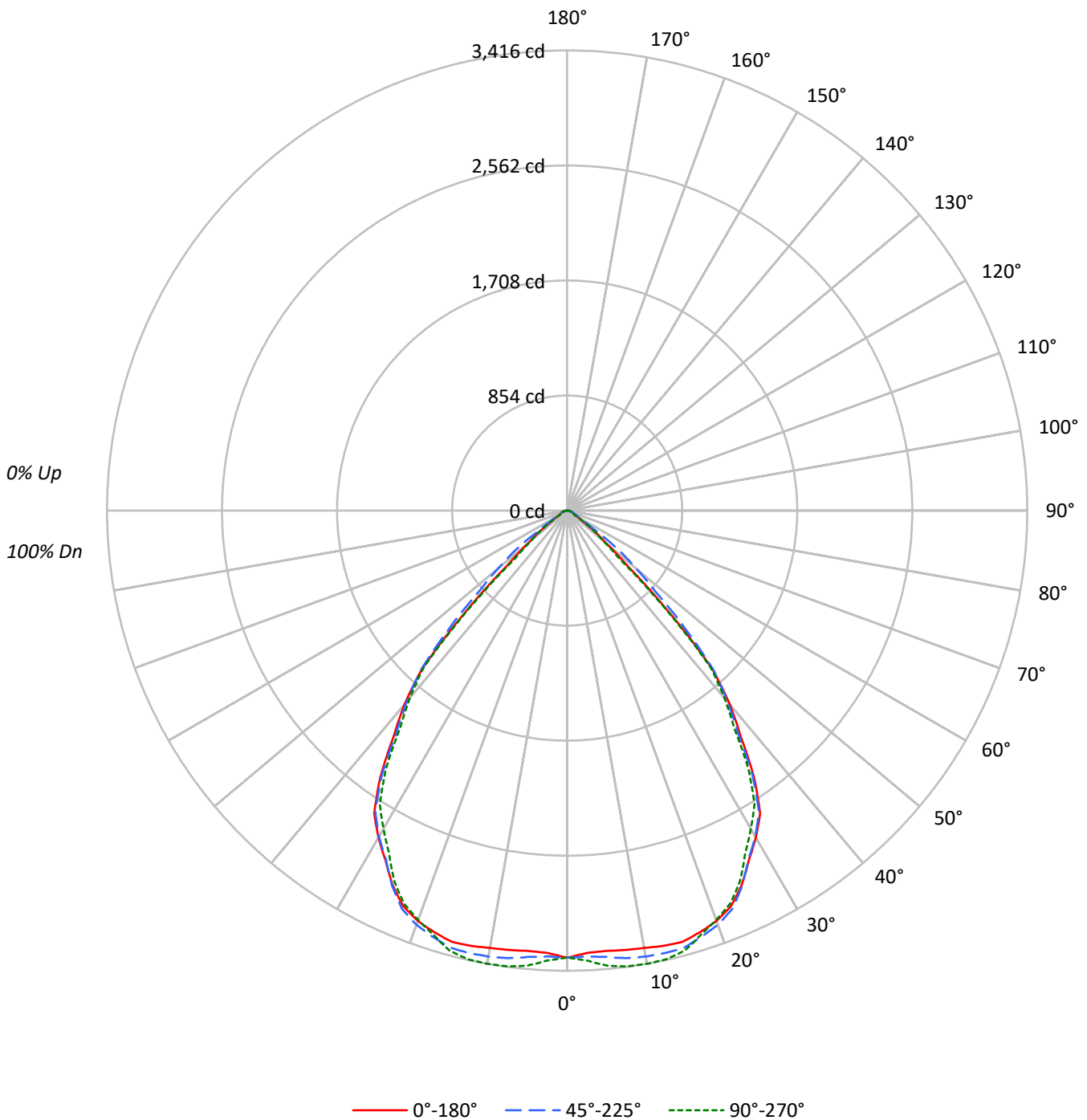
Lumens per Lamp: N/A
Luminaire Lumens: 5336.7 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.21 / 1.19
Luminous Opening: Rectangular (W 0.21' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.5
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	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°	42868	42868	42868
5°	42546	43129	43972
10°	43234	44087	44808
15°	44313	44915	45216
20°	44555	44968	44452
25°	43702	43809	43275
30°	41784	41672	40666
35°	38147	37832	37043
40°	31688	31226	30636
45°	19904	22644	18990
50°	7634	13409	7081
55°	3601	5628	3657
60°	1744	2842	1550
65°	1605	1681	1452
70°	1605	1605	1416
75°	1622	1622	1372
80°	1674	1488	1302
85°	1853	1482	1112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 22644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.7	6.0
10°-20°	945.5	17.7
20°-30°	1404.6	26.3
30°-40°	1470.1	27.5
40°-50°	890.4	16.7
50°-60°	205.5	3.8
60°-70°	56.5	1.1
70°-80°	33.1	0.6
80°-90°	11.4	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°	2669.7	50.0
0°-40°	4139.8	77.6
0°-60°	5235.7	98.1
0°-90°	5336.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5336.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3319	3319	3319	3319	3319	
5°	3281	3357	3326	3340	3391	314
15°	3314	3414	3359	3332	3381	933
25°	3066	3157	3074	2995	3036	1404
35°	2419	2456	2399	2344	2349	1487
45°	1090	1239	1240	1196	1040	837
55°	160	182	250	172	162	166
65°	52	55	55	50	48	53
75°	32	32	32	30	28	34
85°	12	12	10	10	8	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3318.8	3318.8	3318.8	3318.8	3318.8
2.5°	3286.8	3345.5	3312.8	3315.5	3342.8
5°	3281.3	3357.1	3326.3	3340.0	3391.3
7.5°	3290.3	3369.5	3351.3	3356.1	3412.3
10°	3296.3	3379.4	3361.3	3360.1	3416.3
12.5°	3310.3	3397.3	3363.3	3356.1	3410.3
15°	3313.8	3414.0	3358.8	3332.4	3381.3
17.5°	3281.3	3391.8	3317.3	3262.7	3301.8
20°	3241.4	3353.8	3271.4	3194.8	3233.9
22.5°	3179.4	3289.8	3201.4	3118.8	3159.9
25°	3066.4	3156.8	3073.9	2994.9	3036.4
27.5°	2923.5	2987.0	2916.0	2841.0	2864.5
30°	2801.5	2865.1	2794.0	2716.8	2726.5
32.5°	2665.6	2719.3	2650.1	2580.8	2588.6
35°	2419.2	2455.8	2399.2	2344.3	2349.2
37.5°	2119.3	2124.1	2085.8	2035.8	2036.8
40°	1879.3	1894.0	1851.9	1812.0	1816.9
42.5°	1593.4	1651.1	1609.9	1574.0	1574.9
45°	1089.6	1238.7	1239.6	1196.0	1039.6
47.5°	601.8	774.3	885.2	686.4	518.3
50°	379.9	489.8	667.3	401.2	352.4
52.5°	271.9	321.3	487.3	283.8	258.4
55°	159.9	181.9	249.9	172.2	162.4
57.5°	97.5	116.5	145.9	115.1	98.0
60°	67.5	84.6	110.0	77.1	60.0
62.5°	59.5	64.9	86.0	61.4	56.0
65°	52.5	54.9	55.0	49.9	47.5
67.5°	46.5	48.9	46.5	43.9	41.5
70°	42.5	44.9	42.5	39.9	37.5
72.5°	38.5	40.9	38.5	35.9	33.5
75°	32.5	32.5	32.5	29.9	27.5
77.5°	26.5	26.5	26.0	23.9	21.5
80°	22.5	22.5	20.0	19.9	17.5
82.5°	18.5	18.5	16.0	15.9	13.5
85°	12.5	12.5	10.0	9.9	7.5
87.5°	6.0	6.0	4.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)