

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: P645265

Luminaire Tested: OMN4DP-SR4F0-75D930-FLL-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P645265
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-SR4F0-75D930-FLL-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - FLAT FROSTED LENS - 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

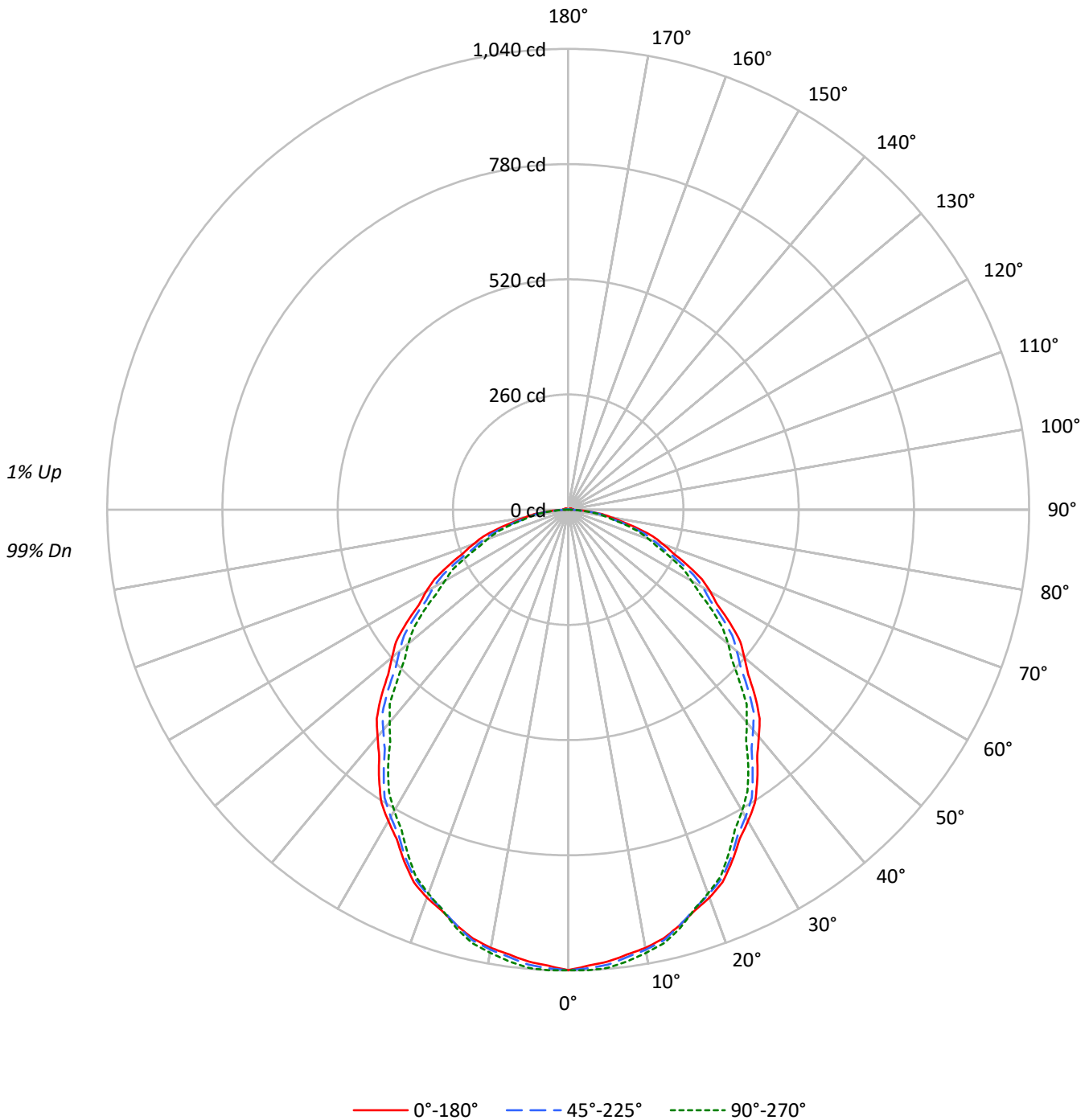
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2534.9 lumens
Efficiency: N/A
Efficacy: 116.3 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): 21.8
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										
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°	16779	16779	16779
5°	16592	16705	16820
10°	16459	16528	16644
15°	16236	16236	16331
20°	16010	15888	15840
25°	15592	15465	15264
30°	15131	14920	14630
35°	14659	14296	13963
40°	14096	13679	13203
45°	13625	13107	12463
50°	13034	12466	11826
55°	12538	11902	11184
60°	11961	11321	10366
65°	11343	10533	9723
70°	10744	9744	9078
75°	10056	8908	8465
80°	9205	8154	7755
85°	8651	7595	7077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13625 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	3.9
10°-20°	274.3	10.8
20°-30°	398.9	15.7
30°-40°	453.7	17.9
40°-50°	442.4	17.5
50°-60°	377.6	14.9
60°-70°	274.4	10.8
70°-80°	155.2	6.1
80°-90°	47.8	1.9
90°-100°	6.0	0.2
100°-110°	3.4	0.1
110°-120°	2.1	0.1
120°-130°	1.2	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°	771.0	30.4
0°-40°	1224.7	48.3
0°-60°	2044.7	80.7
0°-90°	2522.1	99.5
90°-120°	11.4	0.5
90°-150°	12.7	0.5
90°-180°	13.0	0.5
0°-180°	2534.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1024	1039	1031	1030	1038	97
15°	971	984	971	970	977	274
25°	875	884	868	853	857	403
35°	744	746	725	708	708	464
45°	597	594	574	554	546	459
55°	445	444	423	403	397	397
65°	297	294	276	259	254	295
75°	161	156	143	137	136	171
85°	47	41	41	40	38	50
90°	6	7	8	7	7	6
95°	11	6	4	4	3	9
105°	7	4	3	1	0	8
115°	4	3	1	0	0	5
125°	3	3	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°	1039.2	1039.2	1039.2	1039.2	1039.2
2.5°	1030.2	1043.4	1035.8	1035.9	1040.3
5°	1023.7	1038.9	1030.7	1029.5	1037.8
7.5°	1012.9	1027.8	1018.3	1016.8	1027.6
10°	1003.9	1017.7	1008.1	1005.5	1015.2
12.5°	991.4	1005.3	995.7	991.9	1001.6
15°	971.3	983.8	971.3	970.1	977.0
17.5°	948.7	959.5	945.1	940.4	945.6
20°	931.8	941.4	924.7	917.7	921.9
22.5°	910.3	919.9	902.1	891.7	897.0
25°	875.2	883.5	868.1	852.7	856.8
27.5°	837.6	844.0	828.5	812.7	814.1
30°	811.6	815.7	800.3	783.3	784.7
32.5°	784.4	787.5	770.9	752.8	753.0
35°	743.7	746.5	725.3	708.4	708.4
37.5°	700.4	702.1	679.5	661.1	659.2
40°	668.8	671.5	649.0	630.5	626.4
42.5°	639.4	639.9	619.6	601.1	595.8
45°	596.7	593.9	574.0	554.1	545.8
47.5°	550.6	550.6	528.0	508.0	500.2
50°	518.9	518.9	496.3	476.4	470.8
52.5°	489.5	488.4	466.9	446.9	439.2
55°	445.4	444.0	422.8	402.8	397.3
57.5°	398.7	398.7	378.9	357.6	351.5
60°	370.4	370.4	350.6	329.3	321.0
62.5°	339.9	338.8	319.0	299.9	294.9
65°	296.9	294.2	275.7	258.6	254.5
67.5°	255.9	253.2	233.6	219.9	217.2
70°	227.6	224.9	206.4	195.1	192.3
72.5°	200.5	196.6	180.4	171.3	168.5
75°	161.2	155.7	142.8	137.1	135.7
77.5°	123.9	114.5	109.2	105.2	103.8
80°	99.0	90.7	87.7	84.8	83.4
82.5°	77.5	69.2	68.4	66.7	65.3
85°	46.7	41.1	41.0	39.6	38.2
87.5°	20.4	17.3	17.5	17.2	17.2
90°	5.7	7.0	8.5	7.1	7.1
92.5°	10.2	7.1	6.2	5.9	4.8
95°	11.3	5.8	4.2	4.2	2.8
97.5°	9.9	5.7	4.0	2.5	1.4
100°	9.9	5.7	2.8	1.4	1.4
102.5°	8.8	4.6	2.8	1.4	0.3
105°	7.1	4.3	2.8	1.4	0.0
107.5°	6.8	4.3	2.8	1.4	0.0
110°	5.7	4.3	2.8	1.4	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	4.3	2.8	1.4	0.0
115°	4.2	2.9	1.4	0.0	0.0
117.5°	4.2	2.9	1.4	0.0	0.0
120°	4.2	2.9	1.4	0.0	0.0
122.5°	3.1	2.8	1.4	0.0	0.0
125°	2.8	2.8	1.4	0.0	0.0
127.5°	1.4	2.5	1.4	0.0	0.0
130°	1.4	1.4	1.4	0.0	0.0
132.5°	0.3	0.3	0.3	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)