

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: P645135

Luminaire Tested: OMN4DIP-SR4F0-75D25U935-FLLOOB-1DUDD-WW

Issue Date: 2/16/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: P645135  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2206-689-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: OMN4DIP-SR4F0-75D25U935-FLLOOB-1DUDD-WW  
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE  
DOWNLIGHT - FLAT FROSTED LENS - 750 LUMENS PER FOOT  
UPLIGHT - BATWING OPTIC - 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

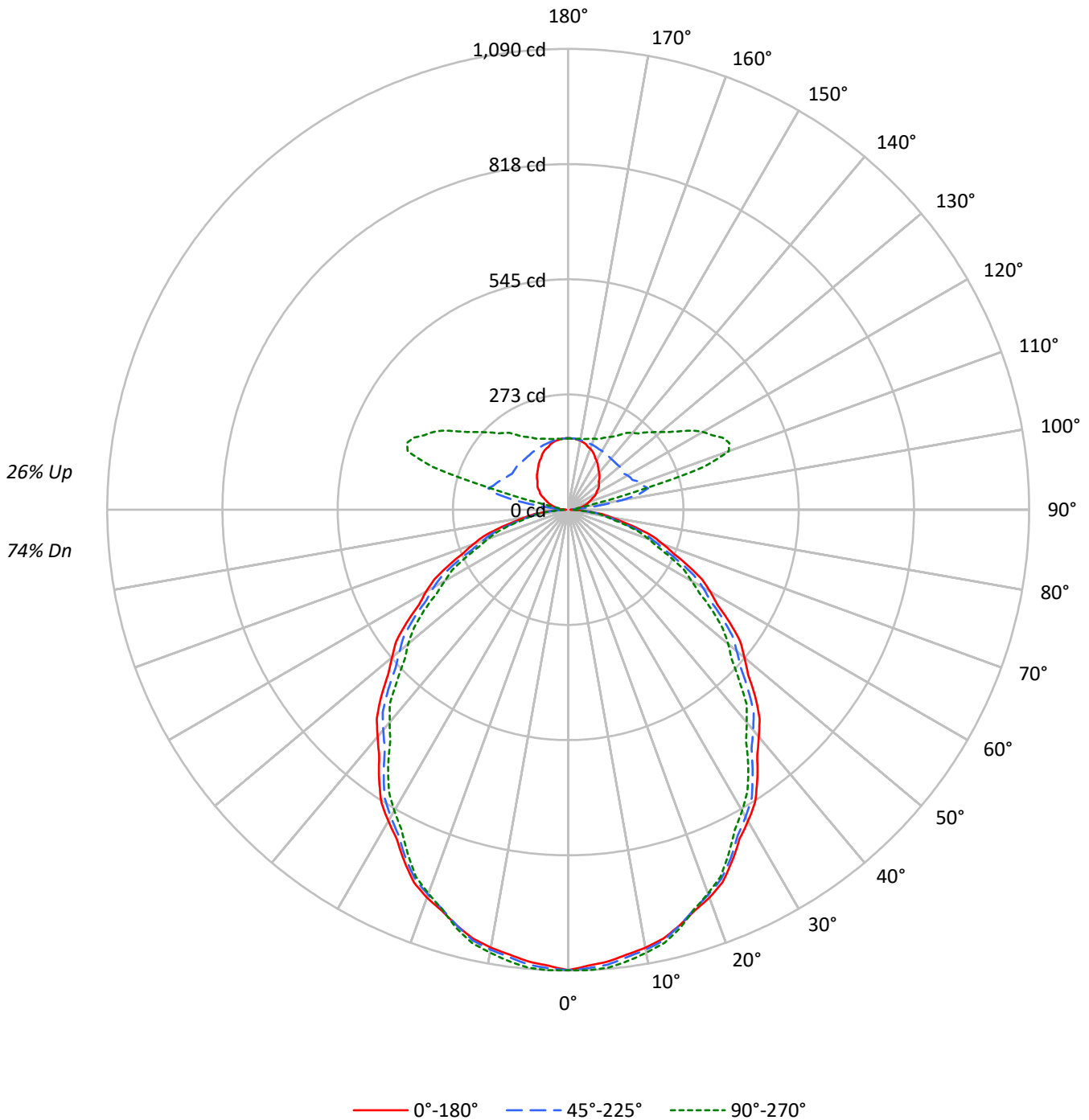
Lumens per Lamp: N/A  
Luminaire Lumens: 3565.0 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 30.1  
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	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	63
2	94	87	80	75	89	82	77	72	75	70	66	68	64	61	61	59	56	53
3	86	76	69	63	81	73	66	60	66	61	56	60	56	52	54	51	48	45
4	79	68	60	53	75	65	57	52	59	53	48	54	49	45	49	45	42	39
5	73	61	52	46	69	58	50	45	53	47	42	48	43	39	44	40	36	34
6	67	55	46	40	64	52	45	39	48	41	37	44	39	34	40	36	32	30
7	62	50	41	35	59	47	40	34	44	37	33	40	35	31	37	32	29	26
8	58	45	37	32	55	43	36	31	40	34	29	37	31	27	34	29	26	24
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17584	17584	17584
5°	17387	17507	17627
10°	17247	17321	17443
15°	17016	17016	17115
20°	16778	16651	16600
25°	16340	16208	15996
30°	15856	15636	15333
35°	15362	14982	14633
40°	14773	14334	13835
45°	14278	13737	13061
50°	13659	13064	12393
55°	13140	12470	11721
60°	12536	11867	10863
65°	11889	11037	10189
70°	11264	10211	9512
75°	10536	9339	8871
80°	9642	8545	8126
85°	9059	7966	7410

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14278 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	2.9
10°-20°	287.5	8.1
20°-30°	418.0	11.7
30°-40°	475.5	13.3
40°-50°	463.6	13.0
50°-60°	395.7	11.1
60°-70°	287.6	8.1
70°-80°	162.6	4.6
80°-90°	50.5	1.4
90°-100°	27.1	0.8
100°-110°	151.6	4.3
110°-120°	203.2	5.7
120°-130°	164.9	4.6
130°-140°	131.8	3.7
140°-150°	103.8	2.9
150°-160°	75.9	2.1
160°-170°	47.1	1.3
170°-180°	16.1	0.5
0°-30°	808.0	22.7
0°-40°	1283.5	36.0
0°-60°	2142.8	60.1
0°-90°	2643.5	74.2
90°-120°	381.9	10.7
90°-150°	782.4	21.9
90°-180°	921.0	25.8
0°-180°	3565.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1073	1089	1080	1079	1088	102
15°	1018	1031	1018	1017	1024	287
25°	917	926	910	894	898	422
35°	779	782	760	742	742	487
45°	625	622	602	581	572	481
55°	467	465	443	422	416	417
65°	311	308	289	271	267	309
75°	169	163	150	144	142	179
85°	49	43	43	42	40	52
90°	6	8	11	11	11	6
95°	20	22	13	14	15	18
105°	40	55	195	247	163	43
115°	63	74	167	345	403	63
125°	87	98	158	273	323	77
135°	104	116	157	225	258	80
145°	123	134	158	196	217	77
155°	145	150	162	178	186	66
165°	160	163	166	170	173	45
175°	169	170	169	168	167	16
180°	169	169	169	169	169	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1089.1	1089.1	1089.1	1089.1	1089.1
2.5°	1079.6	1093.5	1085.5	1085.6	1090.3
5°	1072.8	1088.7	1080.2	1078.9	1087.6
7.5°	1061.5	1077.2	1067.2	1065.6	1076.9
10°	1052.0	1066.5	1056.5	1053.8	1063.9
12.5°	1039.0	1053.5	1043.5	1039.5	1049.7
15°	1018.0	1031.0	1018.0	1016.6	1023.9
17.5°	994.3	1005.6	990.4	985.5	991.0
20°	976.5	986.6	969.1	961.8	966.1
22.5°	954.0	964.1	945.4	934.5	940.0
25°	917.2	925.9	909.8	893.6	897.9
27.5°	877.8	884.5	868.3	851.7	853.2
30°	850.5	854.9	838.7	820.9	822.4
32.5°	822.1	825.3	807.9	788.9	789.2
35°	779.4	782.3	760.1	742.4	742.4
37.5°	734.1	735.8	712.1	692.8	690.8
40°	700.9	703.8	680.1	660.8	656.4
42.5°	670.0	670.6	649.3	629.9	624.4
45°	625.3	622.4	601.6	580.6	572.0
47.5°	577.0	577.0	553.3	532.4	524.2
50°	543.8	543.8	520.1	499.2	493.4
52.5°	513.0	511.8	489.3	468.3	460.2
55°	466.8	465.3	443.0	422.2	416.4
57.5°	417.9	417.9	397.1	374.7	368.4
60°	388.2	388.2	367.5	345.1	336.4
62.5°	356.2	355.1	334.3	314.3	309.1
65°	311.2	308.3	288.9	271.1	266.7
67.5°	268.2	265.3	244.8	230.5	227.6
70°	238.6	235.7	216.3	204.4	201.5
72.5°	210.1	206.1	189.1	179.5	176.6
75°	168.9	163.1	149.7	143.7	142.2
77.5°	129.8	119.9	114.4	110.2	108.8
80°	103.7	95.0	91.9	88.9	87.4
82.5°	81.2	72.5	71.7	69.9	68.5
85°	48.9	43.1	43.0	41.5	40.0
87.5°	21.3	18.4	18.8	18.7	18.7
90°	5.9	8.4	11.0	10.6	10.6
92.5°	13.2	11.1	11.2	12.8	12.5
95°	20.4	21.8	13.0	14.0	14.7
97.5°	25.5	36.3	66.7	21.1	17.4
100°	30.6	43.9	128.4	38.4	25.9
102.5°	34.5	48.6	172.6	98.9	53.7
105°	40.4	55.1	195.4	247.3	162.7
107.5°	47.7	58.4	186.7	359.2	335.1
110°	51.6	62.7	181.6	377.4	404.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	56.7	67.8	176.5	366.8	412.5
115°	62.9	73.9	167.3	344.7	402.9
117.5°	70.8	81.6	165.4	322.4	382.3
120°	76.7	86.7	162.0	305.5	367.9
122.5°	79.8	91.8	157.8	290.9	348.3
125°	87.0	98.4	157.8	273.3	323.2
127.5°	91.6	104.4	158.0	252.9	302.2
130°	95.0	107.5	158.8	239.2	286.0
132.5°	98.1	110.6	157.6	233.1	271.5
135°	104.2	115.6	157.4	225.1	258.4
137.5°	109.5	121.8	157.4	216.3	244.7
140°	113.8	125.2	157.4	211.1	237.1
142.5°	118.0	128.6	158.2	205.1	229.4
145°	123.3	133.7	158.4	196.1	216.9
147.5°	129.7	138.9	159.7	189.6	205.6
150°	134.0	142.3	160.5	185.3	198.8
152.5°	138.2	145.7	160.5	181.8	192.9
155°	144.6	149.8	161.6	177.7	186.1
157.5°	149.7	154.7	162.9	175.1	181.2
160°	153.1	157.3	163.7	173.4	178.6
162.5°	155.7	159.8	164.6	172.5	176.1
165°	160.5	162.6	165.9	170.2	173.3
167.5°	163.3	165.2	166.9	169.1	171.0
170°	165.9	166.9	166.9	169.1	170.1
172.5°	166.7	168.6	167.8	168.2	169.3
175°	169.0	170.1	169.0	168.0	166.9
177.5°	169.0	169.9	169.0	169.0	168.2
180°	169.0	169.0	169.0	169.0	169.0

(END OF REPORT)