

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: P645129

Luminaire Tested: OMN4DIP-SR4F0-75D25U930-FLLOOB-1DUDD-WW

Issue Date: 2/16/2023



**Test Information**

Test Method: LM-79-2019  
Report Number: P645129  
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-SR4F0-75D25U930-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: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

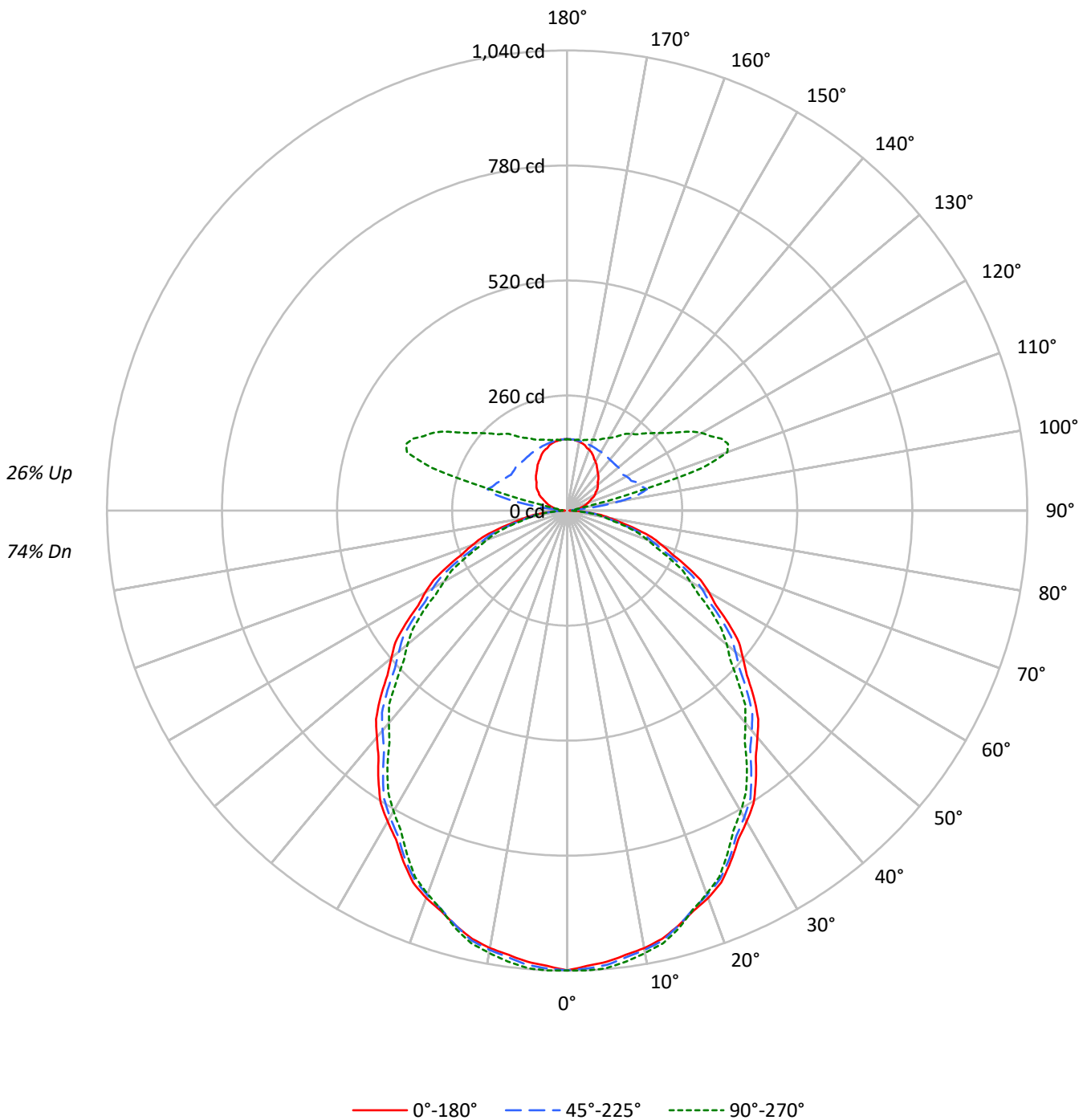
Lumens per Lamp: N/A  
Luminaire Lumens: 3401.7 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 30.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	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°	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	2.9
10°-20°	274.3	8.1
20°-30°	398.9	11.7
30°-40°	453.7	13.3
40°-50°	442.4	13.0
50°-60°	377.6	11.1
60°-70°	274.4	8.1
70°-80°	155.2	4.6
80°-90°	48.1	1.4
90°-100°	25.9	0.8
100°-110°	144.7	4.3
110°-120°	193.9	5.7
120°-130°	157.3	4.6
130°-140°	125.7	3.7
140°-150°	99.0	2.9
150°-160°	72.4	2.1
160°-170°	45.0	1.3
170°-180°	15.3	0.5
0°-30°	771.0	22.7
0°-40°	1224.7	36.0
0°-60°	2044.7	60.1
0°-90°	2522.5	74.2
90°-120°	364.5	10.7
90°-150°	746.5	21.9
90°-180°	879.0	25.8
0°-180°	3401.7	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	8	10	10	10	6
95°	19	21	12	13	14	18
105°	38	53	186	236	155	41
115°	60	71	160	329	384	60
125°	83	94	150	261	308	74
135°	99	110	150	215	246	77
145°	118	128	151	187	207	74
155°	138	143	154	170	178	63
165°	153	155	158	162	165	43
175°	161	162	161	160	159	15
180°	161	161	161	161	161	



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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	17.5	17.9	17.9	17.9
90°	5.7	8.0	10.5	10.1	10.1
92.5°	12.6	10.6	10.7	12.2	11.9
95°	19.4	20.8	12.4	13.4	14.0
97.5°	24.3	34.6	63.6	20.1	16.6
100°	29.2	41.9	122.5	36.7	24.7
102.5°	32.9	46.4	164.7	94.4	51.2
105°	38.5	52.6	186.5	236.0	155.2
107.5°	45.5	55.7	178.1	342.8	319.8
110°	49.3	59.8	173.3	360.1	385.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	54.1	64.7	168.4	350.0	393.6
115°	60.0	70.6	159.7	328.9	384.5
117.5°	67.5	77.9	157.8	307.7	364.8
120°	73.2	82.8	154.6	291.5	351.0
122.5°	76.2	87.6	150.5	277.6	332.3
125°	83.0	93.9	150.5	260.8	308.4
127.5°	87.4	99.7	150.7	241.3	288.3
130°	90.7	102.6	151.6	228.3	272.9
132.5°	93.6	105.5	150.4	222.4	259.1
135°	99.4	110.3	150.1	214.8	246.5
137.5°	104.5	116.2	150.1	206.4	233.5
140°	108.6	119.5	150.1	201.4	226.2
142.5°	112.6	122.7	151.0	195.7	218.9
145°	117.7	127.6	151.2	187.1	207.0
147.5°	123.8	132.5	152.4	180.9	196.2
150°	127.8	135.8	153.2	176.8	189.7
152.5°	131.9	139.0	153.2	173.5	184.0
155°	138.0	142.9	154.2	169.6	177.5
157.5°	142.8	147.6	155.4	167.1	172.9
160°	146.1	150.1	156.2	165.5	170.4
162.5°	148.5	152.5	157.0	164.6	168.0
165°	153.2	155.2	158.3	162.4	165.4
167.5°	155.8	157.6	159.3	161.3	163.1
170°	158.3	159.3	159.3	161.3	162.3
172.5°	159.1	160.9	160.1	160.5	161.5
175°	161.3	162.3	161.3	160.3	159.3
177.5°	161.3	162.1	161.3	161.3	160.5
180°	161.3	161.3	161.3	161.3	161.3

(END OF REPORT)