

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: P645199

Luminaire Tested: OMN4DIP-SR4F0-75D75U940-CLBOOB-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P645199
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2206-689-20)
Test Lab: INNOVATION CENTER
Issue Date: 2/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: OMN4DIP-SR4F0-75D75U940-CLBOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - BATWING LENS - 750 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

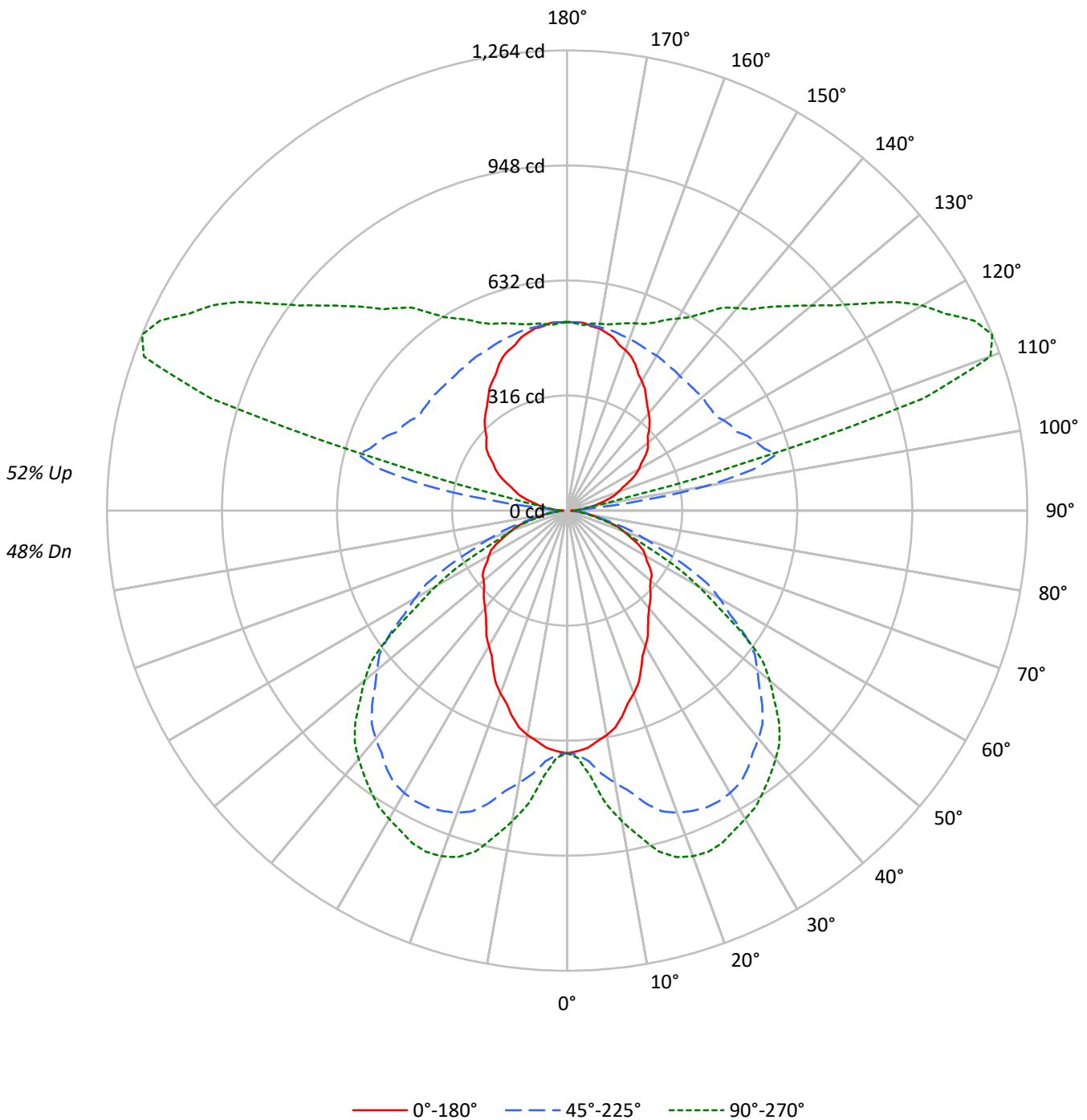
Lumens per Lamp: N/A
Luminaire Lumens: 5359.9 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 1.87 / 1.75
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.6
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										
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48	48	48	48	48	48	48														
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	40	40	40	40	40	40	40														
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34	34	34	34	34	34	34														
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29	29	29	29	29	29	29														
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24	24	24	24	24														
5	68	56	48	42	62	52	45	39	44	38	34	37	32	29	30	27	24	21	21	21	21	21	21	21														
6	62	50	42	36	57	46	39	34	39	34	30	33	29	25	27	24	21	18	18	18	18	18	18	18														
7	57	45	37	31	53	42	35	30	36	30	26	30	25	22	24	21	19	16	16	16	16	16	16	16														
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17	14	14	14	14	14	14	14														
9	49	37	30	24	45	34	28	23	29	24	20	25	21	18	20	17	15	13	13	13	13	13	13	13														
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11	11	11	11	11	11	11														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10760	10760	10760
5°	10600	11203	11856
10°	10265	12449	14203
15°	9765	13911	16191
20°	9186	15177	17361
25°	8558	16041	17945
30°	8004	16699	18232
35°	7636	17044	18542
40°	7381	17245	18782
45°	7396	17303	18790
50°	7513	17128	18256
55°	7851	16794	16577
60°	8005	15613	13462
65°	8111	13677	9887
70°	7756	10754	7681
75°	6962	8022	6475
80°	5904	6341	5188
85°	5743	5169	4298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 18790 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	1.3
10°-20°	227.1	4.2
20°-30°	377.3	7.0
30°-40°	476.0	8.9
40°-50°	508.8	9.5
50°-60°	449.1	8.4
60°-70°	288.2	5.4
70°-80°	127.8	2.4
80°-90°	34.3	0.6
90°-100°	72.4	1.4
100°-110°	459.2	8.6
110°-120°	620.1	11.6
120°-130°	504.0	9.4
130°-140°	403.4	7.5
140°-150°	317.8	5.9
150°-160°	232.4	4.3
160°-170°	144.4	2.7
170°-180°	49.2	0.9
0°-30°	672.8	12.6
0°-40°	1148.7	21.4
0°-60°	2106.6	39.3
0°-90°	2557.0	47.7
90°-120°	1151.7	21.5
90°-150°	2377.0	44.3
90°-180°	2803.0	52.3
0°-180°	5359.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	654	674	691	715	732	61
15°	584	674	832	932	969	164
25°	480	652	900	985	1007	221
35°	387	595	865	921	941	243
45°	324	509	758	805	823	250
55°	279	400	597	600	589	247
65°	212	268	358	291	259	208
75°	112	124	129	110	104	119
85°	31	26	28	25	23	33
90°	11	14	16	19	16	9
95°	43	59	34	34	39	42
105°	112	164	594	754	498	119
115°	187	224	513	1057	1234	186
125°	262	297	483	839	990	233
135°	319	354	482	689	791	246
145°	378	410	485	601	664	237
155°	443	459	495	544	570	203
165°	492	498	508	521	531	138
175°	518	521	518	514	511	49
180°	518	518	518	518	518	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	666.4	666.4	666.4	666.4	666.4
2.5°	661.4	671.1	671.3	675.2	680.0
5°	654.0	673.7	691.2	714.8	731.5
7.5°	638.5	673.6	729.6	784.5	811.7
10°	626.1	674.6	759.3	832.9	866.3
12.5°	610.0	674.2	789.1	877.7	915.9
15°	584.2	673.6	832.2	932.2	968.6
17.5°	554.5	670.8	866.0	966.2	998.0
20°	534.6	668.0	883.3	978.6	1010.4
22.5°	512.3	661.4	893.2	984.7	1014.1
25°	480.4	651.6	900.4	984.6	1007.3
27.5°	449.1	637.6	900.7	972.1	991.5
30°	429.3	626.2	895.7	959.7	977.9
32.5°	411.9	613.7	885.8	944.8	964.2
35°	387.4	595.0	864.7	921.0	940.7
37.5°	366.3	573.6	838.1	892.8	915.9
40°	350.2	556.3	818.2	872.9	891.1
42.5°	337.8	537.8	794.7	848.0	863.8
45°	323.9	508.7	757.8	804.7	822.9
47.5°	309.0	478.7	715.3	759.6	771.4
50°	299.1	456.7	681.9	722.3	726.8
52.5°	292.9	433.5	649.6	675.1	676.0
55°	278.9	400.2	596.6	599.5	588.9
57.5°	260.3	361.3	529.4	514.2	488.8
60°	247.9	334.3	483.5	453.2	416.9
62.5°	235.6	308.6	435.2	386.1	343.7
65°	212.3	268.4	358.0	290.6	258.8
67.5°	185.3	224.1	281.1	217.4	196.2
70°	164.3	194.6	227.8	177.9	162.7
72.5°	144.4	165.0	184.4	147.0	139.2
75°	111.6	123.7	128.6	109.9	103.8
77.5°	82.1	82.7	89.3	77.4	74.4
80°	63.5	60.5	68.2	58.8	55.8
82.5°	48.7	44.4	49.6	42.7	40.9
85°	31.0	26.4	27.9	24.8	23.2
87.5°	18.3	15.3	15.6	14.9	13.1
90°	10.8	14.0	15.8	19.0	16.0
92.5°	22.4	21.9	22.4	27.0	26.5
95°	43.1	59.3	33.8	34.1	38.9
97.5°	61.4	103.4	197.4	59.6	50.4
100°	75.8	125.4	388.9	116.2	76.5
102.5°	90.2	143.6	524.4	300.3	163.8
105°	111.8	164.4	594.1	754.5	498.3
107.5°	134.9	173.0	567.4	1097.4	1026.5
110°	149.3	186.0	551.7	1153.0	1237.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.0	201.7	536.1	1120.5	1263.5
115°	186.9	223.6	512.7	1057.4	1234.2
117.5°	210.6	247.0	506.8	989.2	1171.1
120°	227.6	262.7	496.4	937.2	1126.8
122.5°	240.7	277.0	482.1	892.6	1066.8
125°	261.9	296.9	483.4	838.7	990.0
127.5°	279.3	316.1	482.5	775.8	925.5
130°	289.7	327.9	485.1	732.7	876.0
132.5°	300.2	338.4	482.6	713.9	831.7
135°	319.1	354.2	482.0	689.4	791.3
137.5°	335.4	373.0	482.0	662.4	749.7
140°	348.5	383.5	482.0	646.6	726.2
142.5°	361.5	394.0	484.6	628.3	702.8
145°	377.8	409.6	485.2	600.7	664.3
147.5°	397.3	425.3	489.1	580.8	629.8
150°	410.3	435.8	491.7	567.6	609.0
152.5°	423.4	446.3	491.7	557.0	590.7
155°	442.9	458.8	495.0	544.4	569.9
157.5°	458.5	473.8	498.9	536.4	554.9
160°	468.9	481.7	501.5	531.2	547.1
162.5°	476.8	489.5	504.1	528.5	539.3
165°	491.7	498.1	508.0	521.3	530.8
167.5°	500.2	505.9	511.3	517.9	523.7
170°	508.0	511.2	511.3	517.9	521.0
172.5°	510.6	516.4	513.9	515.3	518.4
175°	517.8	521.0	517.8	514.5	511.3
177.5°	517.8	520.3	517.8	517.7	515.2
180°	517.8	517.8	517.8	517.8	517.8

(END OF REPORT)