

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: P645176

Luminaire Tested: OMN4DIP-SR4F0-75D75U830-FLLOOB-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P645176
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-SR4F0-75D75U830-FLLOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - FLAT FROSTED LENS - 750 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

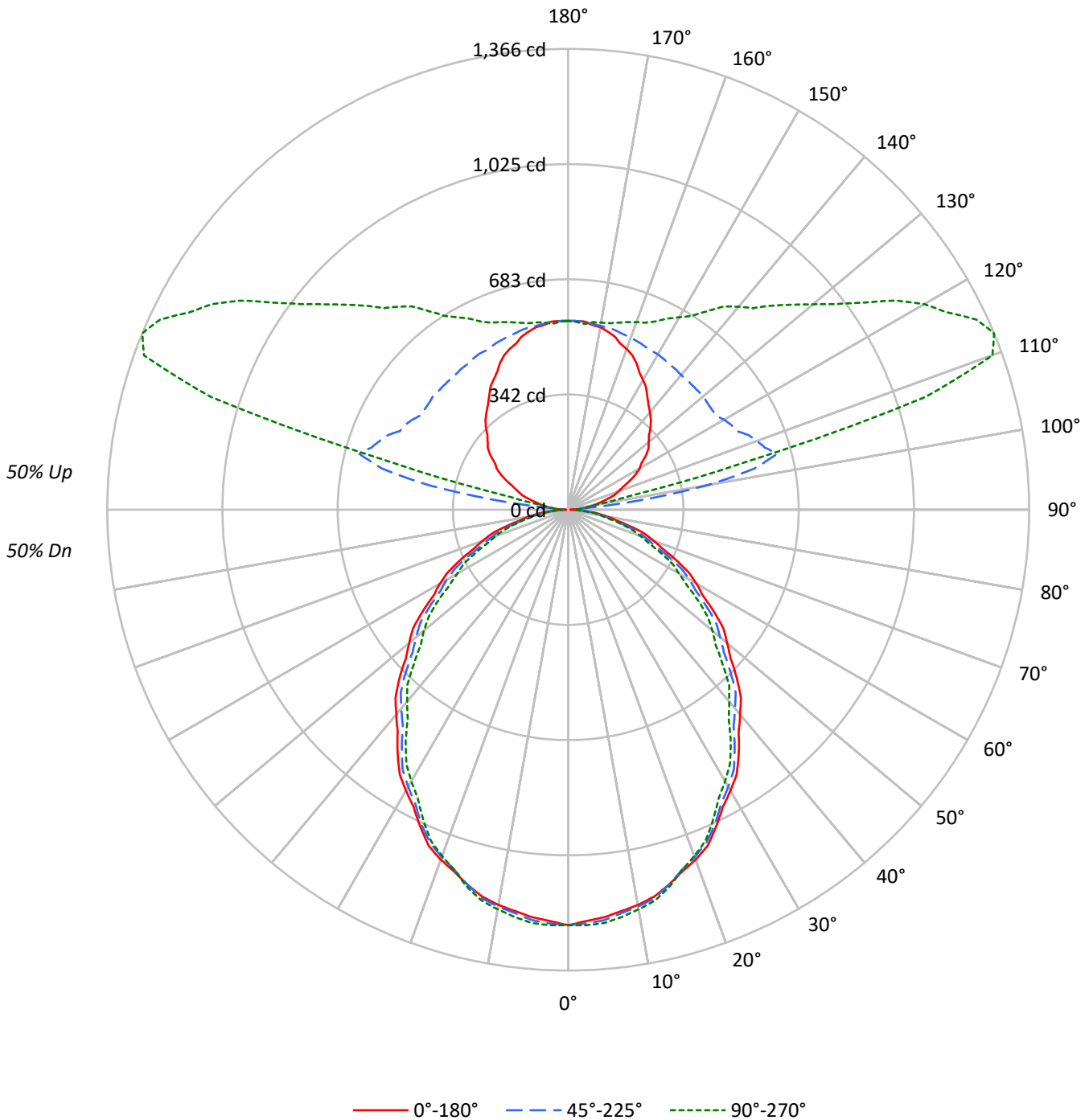
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6011.7 lumens
Efficiency: N/A
Efficacy: 141.1 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: 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					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	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42				
2	89	82	76	70	82	76	70	66	64	60	57	53	51	48	44	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	47	36	29	24	31	26	22	26	22	19	22	19	16	14				
10	47	35	28	23	44	33	26	22	29	23	20	24	20	17	21	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19882	19882	19882
5°	19658	19794	19930
10°	19502	19584	19721
15°	19239	19239	19351
20°	18969	18826	18768
25°	18474	18326	18088
30°	17928	17678	17335
35°	17369	16939	16543
40°	16701	16208	15643
45°	16143	15531	14767
50°	15443	14770	14014
55°	14854	14100	13253
60°	14173	13417	12281
65°	13440	12481	11522
70°	12732	11547	10754
75°	11915	10555	10031
80°	10907	9661	9186
85°	10244	9003	8373

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16143 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	1.9
10°-20°	325.1	5.4
20°-30°	472.6	7.9
30°-40°	537.6	8.9
40°-50°	524.2	8.7
50°-60°	447.4	7.4
60°-70°	325.2	5.4
70°-80°	183.9	3.1
80°-90°	57.9	1.0
90°-100°	76.0	1.3
100°-110°	494.4	8.2
110°-120°	668.2	11.1
120°-130°	543.3	9.0
130°-140°	436.0	7.3
140°-150°	343.6	5.7
150°-160°	251.2	4.2
160°-170°	156.1	2.6
170°-180°	53.2	0.9
0°-30°	913.5	15.2
0°-40°	1451.1	24.1
0°-60°	2422.8	40.3
0°-90°	2989.7	49.7
90°-120°	1238.6	20.6
90°-150°	2561.5	42.6
90°-180°	3022.0	50.3
0°-180°	6011.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1213	1231	1221	1220	1230	115
15°	1151	1166	1151	1150	1158	324
25°	1037	1047	1029	1010	1015	477
35°	881	884	859	839	839	550
45°	707	704	680	656	647	544
55°	528	526	501	477	471	471
65°	352	348	327	306	302	349
75°	191	184	169	162	161	203
85°	55	49	49	47	45	59
90°	7	12	17	19	19	8
95°	42	59	33	37	42	42
105°	118	173	641	816	539	125
115°	199	238	551	1142	1334	198
125°	282	319	519	905	1070	250
135°	345	383	521	745	856	266
145°	408	443	525	649	718	257
155°	479	496	535	589	616	220
165°	532	538	549	564	574	149
175°	560	563	560	556	553	53
180°	560	560	560	560	560	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.4	1231.4	1231.4	1231.4	1231.4
2.5°	1220.6	1236.4	1227.3	1227.5	1232.7
5°	1212.9	1231.0	1221.3	1219.9	1229.7
7.5°	1200.2	1217.9	1206.6	1204.9	1217.6
10°	1189.5	1205.9	1194.5	1191.4	1202.9
12.5°	1174.7	1191.1	1179.8	1175.3	1186.8
15°	1151.0	1165.7	1151.0	1149.5	1157.7
17.5°	1124.1	1136.9	1119.8	1114.2	1120.5
20°	1104.0	1115.5	1095.7	1087.4	1092.3
22.5°	1078.6	1090.0	1068.9	1056.6	1062.8
25°	1037.0	1046.9	1028.7	1010.3	1015.3
27.5°	992.5	1000.0	981.7	963.0	964.7
30°	961.6	966.6	948.2	928.2	929.8
32.5°	929.5	933.1	913.4	892.0	892.3
35°	881.2	884.5	859.4	839.3	839.3
37.5°	830.0	831.9	805.2	783.3	781.0
40°	792.4	795.7	769.0	747.1	742.2
42.5°	757.6	758.2	734.1	712.2	706.0
45°	707.0	703.7	680.2	656.5	646.7
47.5°	652.4	652.4	625.6	601.9	592.7
50°	614.8	614.8	588.0	564.4	557.9
52.5°	580.0	578.7	553.2	529.5	520.4
55°	527.7	526.1	500.9	477.3	470.8
57.5°	472.4	472.4	449.0	423.7	416.5
60°	438.9	438.9	415.5	390.1	380.3
62.5°	402.8	401.4	378.0	355.4	349.5
65°	351.8	348.5	326.7	306.5	301.6
67.5°	303.2	300.0	276.8	260.6	257.3
70°	269.7	266.5	244.6	231.1	227.8
72.5°	237.6	233.0	213.8	203.0	199.7
75°	191.0	184.4	169.2	162.5	160.8
77.5°	146.8	135.6	129.3	124.6	123.0
80°	117.3	107.4	103.9	100.5	98.8
82.5°	91.8	82.0	81.1	79.0	77.4
85°	55.3	48.7	48.6	46.9	45.2
87.5°	24.1	21.2	22.2	22.6	22.6
90°	6.7	11.8	17.1	18.9	18.9
92.5°	20.5	20.4	22.9	28.9	30.3
95°	41.6	59.1	33.2	36.8	42.1
97.5°	61.7	107.1	211.7	64.1	54.5
100°	78.6	132.2	418.8	124.0	82.6
102.5°	94.2	150.5	565.2	324.3	177.1
105°	117.5	172.8	640.6	815.7	538.6
107.5°	142.5	183.6	611.7	1186.4	1109.7
110°	158.1	197.8	594.8	1246.5	1337.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	175.0	214.7	577.9	1211.3	1366.0
115°	198.7	238.3	550.9	1141.5	1334.3
117.5°	224.7	263.7	544.5	1067.7	1266.0
120°	244.4	280.7	533.3	1011.6	1218.1
122.5°	257.2	297.5	519.2	963.3	1153.3
125°	281.5	319.3	519.2	905.0	1070.3
127.5°	300.2	340.1	519.9	837.4	1000.5
130°	311.5	352.8	522.7	792.1	947.0
132.5°	324.2	365.5	521.4	771.8	899.2
135°	345.0	382.9	521.0	745.3	855.5
137.5°	362.6	403.2	521.0	716.1	810.4
140°	376.7	414.6	521.0	699.0	785.1
142.5°	390.8	425.9	523.9	679.2	759.7
145°	408.4	442.8	524.6	649.4	718.2
147.5°	429.5	459.8	528.8	627.9	680.9
150°	443.6	471.1	531.6	613.6	658.3
152.5°	457.7	482.5	531.6	602.1	638.6
155°	478.8	496.0	535.1	588.6	616.1
157.5°	495.7	512.2	539.4	579.9	599.9
160°	507.0	520.7	542.2	574.2	591.5
162.5°	515.4	529.2	545.0	571.3	583.0
165°	531.6	538.5	549.2	563.5	573.9
167.5°	540.8	547.0	552.7	559.9	566.1
170°	549.2	552.7	552.7	559.9	563.3
172.5°	552.0	558.2	555.5	557.0	560.5
175°	559.8	563.2	559.8	556.2	552.7
177.5°	559.8	562.5	559.8	559.7	557.0
180°	559.8	559.8	559.8	559.8	559.8

(END OF REPORT)