

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: P645060

Luminaire Tested: OMN4DIP-SR4F0-75D125U835-FLLOOB-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P645060
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-SR4F0-75D125U835-FLLOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - FLAT FROSTED LENS - 750 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

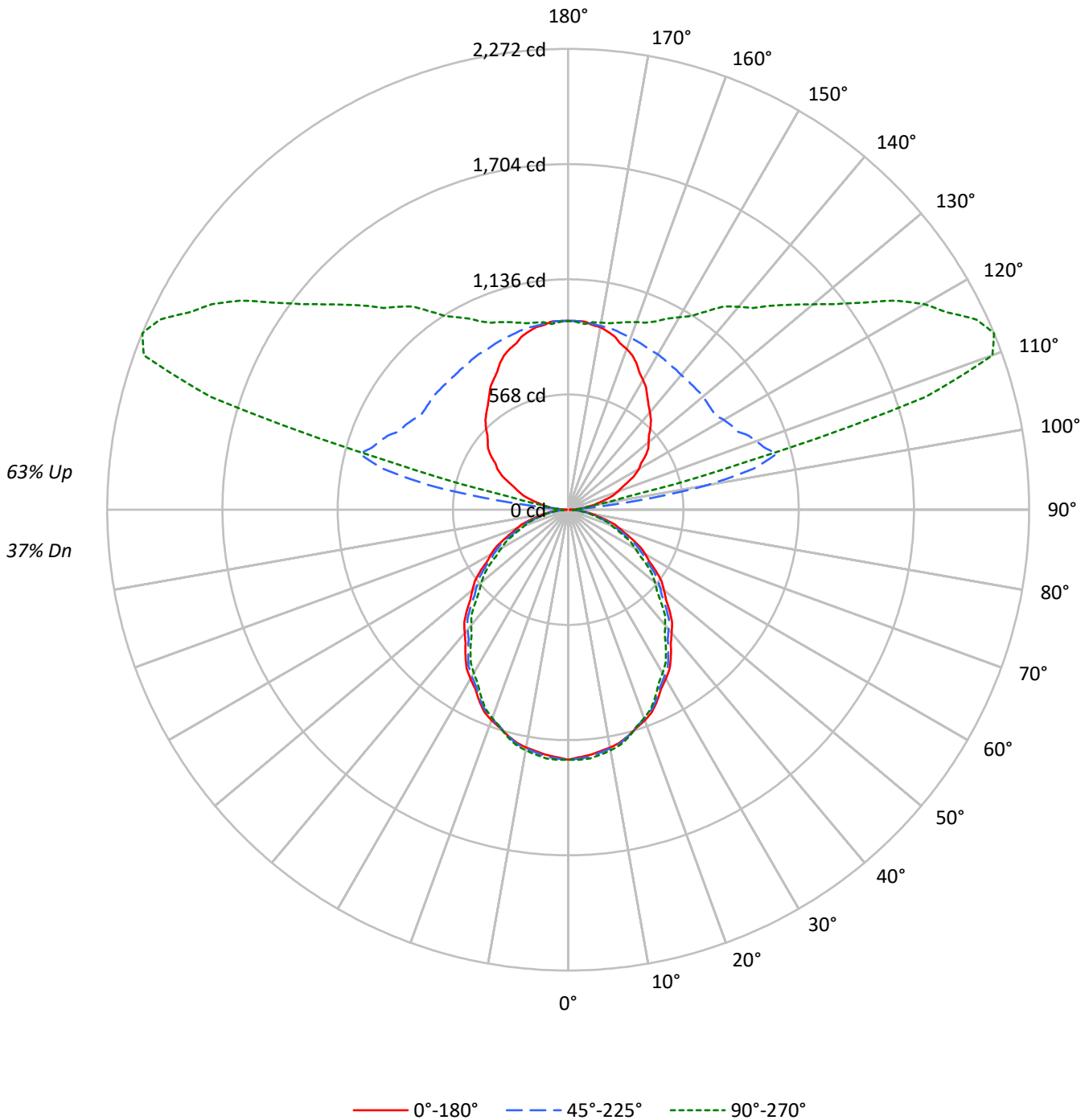
Lumens per Lamp: N/A
Luminaire Lumens: 8009.8 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 60
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	87	84	86	82	79	76	67	65	63	53	51	50	39	38	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19900	19900	19900
5°	19676	19812	19948
10°	19520	19602	19739
15°	19256	19256	19368
20°	18986	18844	18785
25°	18492	18342	18104
30°	17944	17695	17350
35°	17385	16955	16559
40°	16716	16223	15656
45°	16157	15545	14780
50°	15458	14785	14026
55°	14869	14114	13264
60°	14186	13430	12290
65°	13452	12493	11530
70°	12746	11556	10768
75°	11928	10568	10044
80°	10916	9670	9196
85°	10244	9003	8392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16157 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	1.4
10°-20°	325.3	4.1
20°-30°	473.1	5.9
30°-40°	538.1	6.7
40°-50°	524.7	6.6
50°-60°	447.9	5.6
60°-70°	325.5	4.1
70°-80°	184.1	2.3
80°-90°	58.8	0.7
90°-100°	121.6	1.5
100°-110°	819.7	10.2
110°-120°	1109.9	13.9
120°-130°	902.7	11.3
130°-140°	725.1	9.1
140°-150°	571.5	7.1
150°-160°	417.9	5.2
160°-170°	259.6	3.2
170°-180°	88.5	1.1
0°-30°	914.3	11.4
0°-40°	1452.4	18.1
0°-60°	2425.0	30.3
0°-90°	2993.3	37.4
90°-120°	2051.2	25.6
90°-150°	4250.6	53.1
90°-180°	5017.0	62.6
0°-180°	8009.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1214	1232	1222	1221	1231	115
15°	1152	1167	1152	1150	1159	325
25°	1038	1048	1030	1011	1016	478
35°	882	885	860	840	840	551
45°	708	704	681	657	647	545
55°	528	527	501	478	471	471
65°	352	349	327	307	302	350
75°	191	185	169	163	161	203
85°	55	49	49	47	45	59
90°	7	14	22	26	26	9
95°	60	94	52	58	68	62
105°	190	284	1063	1356	896	201
115°	327	394	915	1899	2219	325
125°	466	529	862	1505	1780	414
135°	574	637	867	1240	1423	442
145°	679	736	872	1080	1195	427
155°	796	825	890	979	1025	366
165°	884	896	914	937	954	248
175°	931	937	931	925	919	88
180°	931	931	931	931	931	



TEST NUMBER: P645060

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1221.8	1237.5	1228.5	1228.6	1233.8
5°	1214.0	1232.1	1222.4	1221.0	1230.8
7.5°	1201.3	1219.0	1207.7	1205.9	1218.7
10°	1190.6	1207.0	1195.6	1192.5	1204.0
12.5°	1175.8	1192.2	1180.8	1176.4	1187.9
15°	1152.0	1166.7	1152.0	1150.5	1158.7
17.5°	1125.2	1138.0	1120.8	1115.2	1121.5
20°	1105.0	1116.5	1096.7	1088.4	1093.3
22.5°	1079.6	1091.0	1069.8	1057.6	1063.8
25°	1038.0	1047.8	1029.6	1011.3	1016.2
27.5°	993.4	1000.9	982.6	963.9	965.5
30°	962.5	967.4	949.1	929.0	930.6
32.5°	930.3	933.9	914.2	892.8	893.1
35°	882.0	885.3	860.2	840.1	840.1
37.5°	830.7	832.7	805.9	784.0	781.7
40°	793.1	796.4	769.7	747.8	742.8
42.5°	758.3	758.9	734.8	712.9	706.6
45°	707.6	704.3	680.8	657.1	647.3
47.5°	653.0	653.0	626.1	602.4	593.3
50°	615.4	615.4	588.6	564.9	558.4
52.5°	580.5	579.2	553.7	530.0	520.8
55°	528.2	526.6	501.4	477.8	471.2
57.5°	472.9	472.9	449.4	424.1	416.9
60°	439.3	439.3	415.9	390.5	380.6
62.5°	403.1	401.8	378.3	355.7	349.8
65°	352.1	348.9	327.0	306.8	301.8
67.5°	303.5	300.2	277.0	260.8	257.6
70°	270.0	266.7	244.8	231.3	228.1
72.5°	237.8	233.2	214.0	203.2	199.9
75°	191.2	184.6	169.4	162.6	161.0
77.5°	146.9	135.7	129.5	124.7	123.1
80°	117.4	107.5	104.0	100.6	98.9
82.5°	91.9	82.1	81.2	79.1	77.5
85°	55.3	48.8	48.6	46.9	45.3
87.5°	24.1	21.7	23.1	24.0	24.0
90°	6.7	14.1	21.8	26.0	26.0
92.5°	26.1	28.2	33.1	43.4	46.7
95°	60.3	93.8	51.9	58.0	67.8
97.5°	94.9	173.6	349.0	104.6	89.5
100°	123.0	215.4	694.3	205.1	136.4
102.5°	149.8	246.8	937.9	538.4	294.3
105°	189.9	284.0	1063.2	1355.6	895.9
107.5°	231.7	302.1	1015.2	1972.2	1845.7
110°	258.5	325.6	987.1	2072.2	2225.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.6	353.7	959.0	2013.7	2272.0
115°	327.1	394.2	915.2	1898.7	2219.3
117.5°	370.4	436.3	904.6	1775.9	2105.7
120°	403.2	464.6	885.9	1682.5	2026.1
122.5°	425.3	492.5	862.5	1602.3	1918.3
125°	466.0	528.9	862.5	1505.3	1780.1
127.5°	498.2	563.7	863.6	1392.8	1664.2
130°	517.0	585.7	868.3	1317.5	1575.2
132.5°	539.1	607.8	867.0	1283.7	1495.5
135°	573.9	636.8	866.6	1239.7	1422.9
137.5°	603.1	670.7	866.6	1191.1	1348.0
140°	626.6	689.5	866.6	1162.7	1305.8
142.5°	650.0	708.4	871.3	1129.7	1263.7
145°	679.3	736.5	872.5	1080.1	1194.6
147.5°	714.4	764.8	879.5	1044.3	1132.5
150°	737.8	783.6	884.2	1020.6	1095.0
152.5°	761.2	802.5	884.2	1001.5	1062.2
155°	796.4	825.0	890.1	978.9	1024.7
157.5°	824.5	852.0	897.1	964.6	997.8
160°	843.2	866.1	901.8	955.1	983.8
162.5°	857.3	880.2	906.5	950.2	969.7
165°	884.2	895.7	913.5	937.3	954.5
167.5°	899.4	909.7	919.3	931.3	941.6
170°	913.5	919.2	919.3	931.2	936.9
172.5°	918.2	928.5	924.0	926.5	932.2
175°	931.1	936.8	931.1	925.1	919.3
177.5°	931.1	935.6	931.1	931.0	926.4
180°	931.1	931.1	931.1	931.1	931.1

(END OF REPORT)