

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: P645120

Luminaire Tested: OMN4DIP-SR4F0-75D25U835-FLLOOB-1DUDD-WW

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P645120
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-SR4F0-75D25U835-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

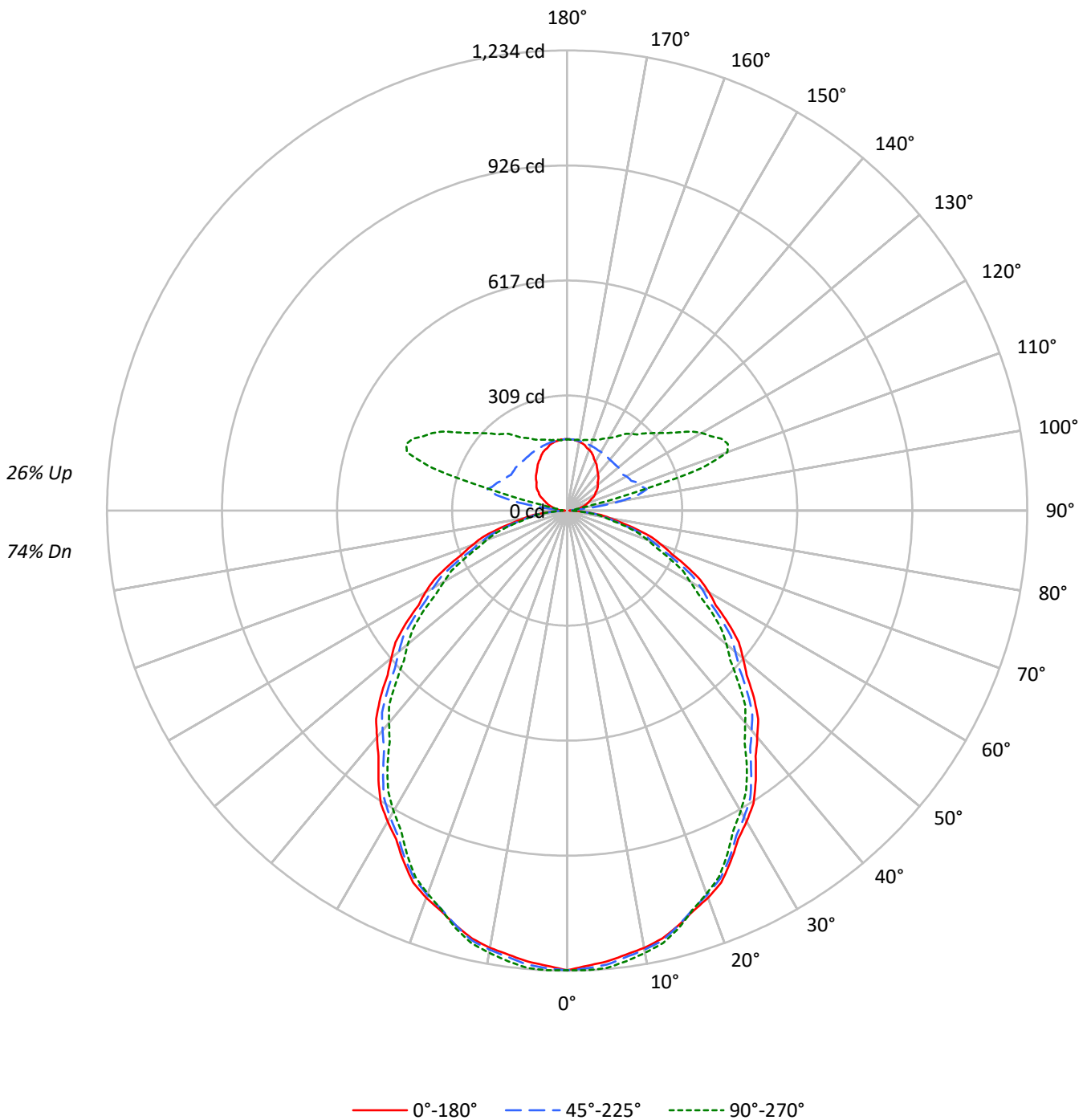
Lumens per Lamp: N/A
Luminaire Lumens: 4034.4 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (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

TEST NUMBER: P645120

CATALOG NUMBER: OMN4DIP-SR4F0-75D25U835-FLLOOB-1DUDD-WW

Luminous Intensity Polar Plot





TEST NUMBER: P645120

CATALOG NUMBER: OMN4DIP-SR4F0-75D25U835-FLLOOB-1DUDD-WW

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°	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



TEST NUMBER: P645120

CATALOG NUMBER: OMN4DIP-SR4F0-75D25U835-FLLOOB-1DUDD-WW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	2.9
10°-20°	325.3	8.1
20°-30°	473.1	11.7
30°-40°	538.1	13.3
40°-50°	524.7	13.0
50°-60°	447.9	11.1
60°-70°	325.5	8.1
70°-80°	184.1	4.6
80°-90°	57.1	1.4
90°-100°	30.7	0.8
100°-110°	171.6	4.3
110°-120°	230.0	5.7
120°-130°	186.6	4.6
130°-140°	149.1	3.7
140°-150°	117.4	2.9
150°-160°	85.9	2.1
160°-170°	53.3	1.3
170°-180°	18.2	0.5
0°-30°	914.3	22.7
0°-40°	1452.4	36.0
0°-60°	2425.0	60.1
0°-90°	2991.6	74.2
90°-120°	432.2	10.7
90°-150°	885.4	21.9
90°-180°	1043.0	25.9
0°-180°	4034.4	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	10	12	12	12	7
95°	23	25	15	16	17	21
105°	46	62	221	280	184	49
115°	71	84	189	390	456	71
125°	98	111	178	309	366	87
135°	118	131	178	255	292	91
145°	140	151	179	222	245	88
155°	164	170	183	201	211	75
165°	182	184	188	193	196	51
175°	191	192	191	190	189	18
180°	191	191	191	191	191	



TEST NUMBER: P645120

CATALOG NUMBER: OMN4DIP-SR4F0-75D25U835-FLLOOB-1DUDD-WW

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	20.8	21.3	21.2	21.2
90°	6.7	9.5	12.5	12.0	12.0
92.5°	15.0	12.5	12.7	14.5	14.1
95°	23.0	24.7	14.7	15.9	16.6
97.5°	28.8	41.1	75.4	23.9	19.7
100°	34.6	49.7	145.3	43.5	29.3
102.5°	39.0	55.1	195.4	111.9	60.7
105°	45.7	62.4	221.1	279.8	184.1
107.5°	54.0	66.1	211.3	406.5	379.2
110°	58.4	70.9	205.5	427.1	457.2



TEST NUMBER: P645120

CATALOG NUMBER: OMN4DIP-SR4F0-75D25U835-FLLOOB-1DUDD-WW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.2	76.7	199.7	415.1	466.8
115°	71.2	83.7	189.4	390.1	456.0
117.5°	80.1	92.4	187.2	364.9	432.7
120°	86.8	98.1	183.4	345.7	416.3
122.5°	90.3	103.9	178.5	329.2	394.2
125°	98.4	111.3	178.5	309.3	365.8
127.5°	103.7	118.2	178.8	286.2	341.9
130°	107.6	121.7	179.7	270.7	323.7
132.5°	111.0	125.1	178.4	263.8	307.3
135°	117.9	130.9	178.1	254.7	292.4
137.5°	123.9	137.8	178.1	244.7	277.0
140°	128.7	141.7	178.1	238.9	268.3
142.5°	133.6	145.6	179.0	232.1	259.6
145°	139.6	151.3	179.3	221.9	245.4
147.5°	146.8	157.1	180.7	214.6	232.7
150°	151.6	161.0	181.7	209.7	225.0
152.5°	156.4	164.9	181.7	205.8	218.3
155°	163.6	169.5	182.9	201.1	210.6
157.5°	169.4	175.1	184.3	198.2	205.0
160°	173.3	178.0	185.3	196.2	202.1
162.5°	176.1	180.8	186.3	195.2	199.2
165°	181.7	184.0	187.7	192.6	196.1
167.5°	184.8	186.9	188.9	191.4	193.5
170°	187.7	188.9	188.9	191.3	192.5
172.5°	188.7	190.8	189.9	190.4	191.5
175°	191.3	192.5	191.3	190.1	188.9
177.5°	191.3	192.2	191.3	191.3	190.3
180°	191.3	191.3	191.3	191.3	191.3

(END OF REPORT)