

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: P645127

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

Issue Date: 2/16/2023



Test Information

Test Method: LM-79-2019
Report Number: P645127
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-SR4F0-75D25U930-CLBOOB-1DUDD-WW
Description: NEO-RAY CIRQUE SUSPENDED LED LUMINAIRE
DOWNLIGHT - BATWING LENS - 750 LUMENS PER FOOT
UPLIGHT - BATWING OPTIC - 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

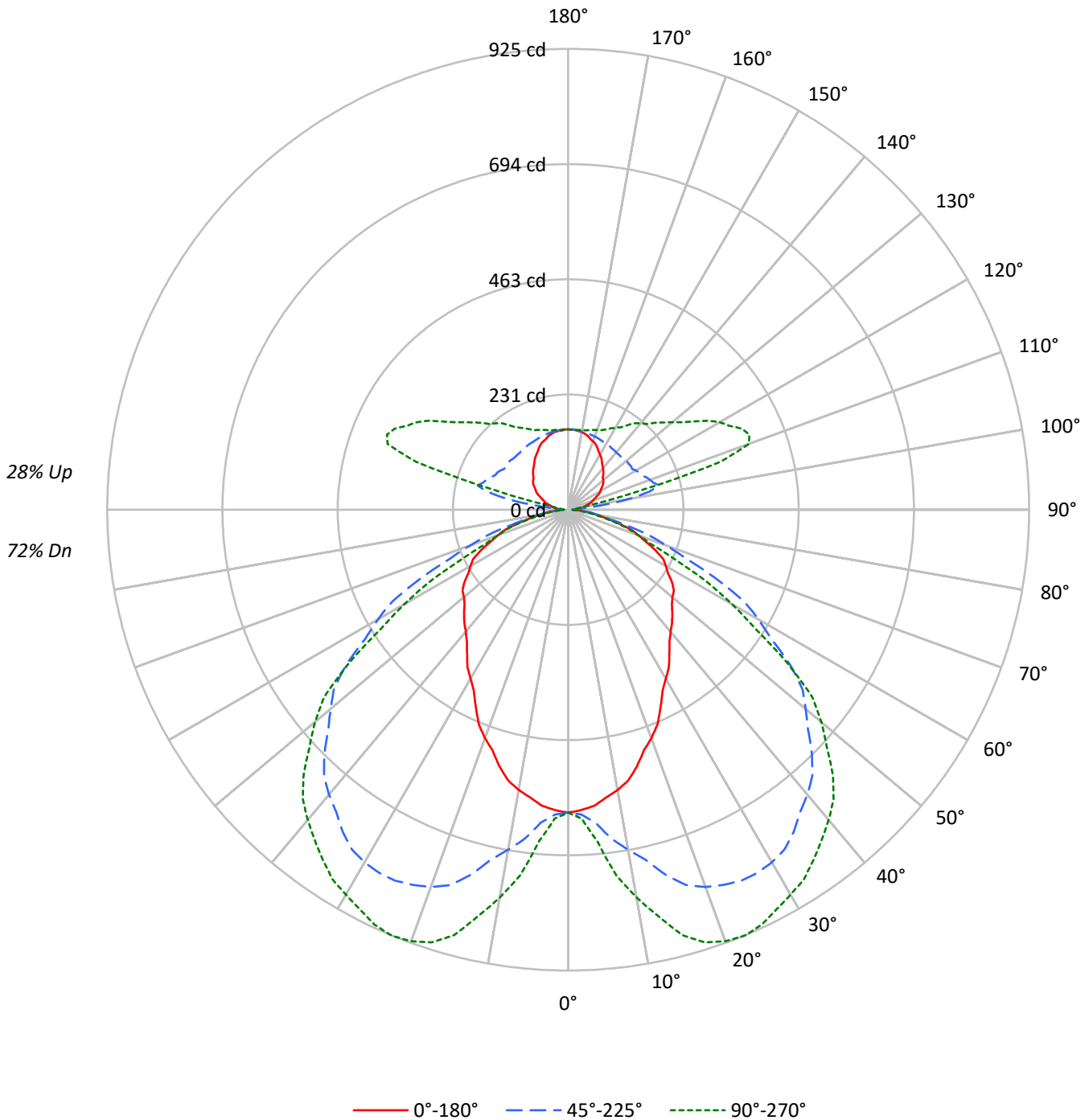
Lumens per Lamp: N/A
Luminaire Lumens: 3218.4 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 1.87 / 1.75
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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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	112	112	112	112	107	107	107	107	96	96	96		86	86	86		77	77	77	72
1	103	99	95	91	98	94	90	87	84	82	79		76	74	72		68	67	65	61
2	94	86	80	74	89	82	76	71	74	70	66		67	63	60		60	57	55	51
3	85	76	68	62	81	72	65	60	65	60	55		59	54	51		53	50	47	43
4	78	67	59	52	74	64	56	50	58	52	47		52	47	43		47	43	40	37
5	72	59	51	45	68	57	49	43	52	45	40		47	41	37		42	38	35	32
6	66	53	45	39	62	51	43	37	46	40	35		42	37	33		38	34	30	28
7	61	48	40	34	58	46	38	33	42	35	31		38	33	29		35	30	27	24
8	57	44	35	30	53	42	34	29	38	32	27		35	29	25		32	27	24	21
9	53	40	32	27	50	38	31	26	35	29	24		32	27	23		29	25	21	19
10	49	36	29	24	47	35	28	23	32	26	22		29	24	20		27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9817	9817	9817
5°	9671	10220	10817
10°	9365	11358	12959
15°	8909	12692	14771
20°	8381	13847	15840
25°	7808	14635	16372
30°	7301	15236	16634
35°	6968	15552	16915
40°	6734	15734	17136
45°	6747	15787	17144
50°	6855	15626	16656
55°	7164	15325	15125
60°	7304	14244	12281
65°	7400	12478	9020
70°	7076	9810	7010
75°	6351	7324	5908
80°	5393	5783	4733
85°	5243	4724	3927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 17144 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	1.9
10°-20°	207.2	6.4
20°-30°	344.2	10.7
30°-40°	434.3	13.5
40°-50°	464.2	14.4
50°-60°	409.7	12.7
60°-70°	263.0	8.2
70°-80°	116.6	3.6
80°-90°	30.6	1.0
90°-100°	27.8	0.9
100°-110°	146.4	4.5
110°-120°	195.7	6.1
120°-130°	158.6	4.9
130°-140°	125.8	3.9
140°-150°	99.0	3.1
150°-160°	72.4	2.2
160°-170°	45.0	1.4
170°-180°	15.3	0.5
0°-30°	613.8	19.1
0°-40°	1048.1	32.6
0°-60°	1922.1	59.7
0°-90°	2332.2	72.5
90°-120°	369.9	11.5
90°-150°	753.4	23.4
90°-180°	886.0	27.5
0°-180°	3218.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	597	615	631	652	667	56
15°	533	615	759	850	884	149
25°	438	594	822	898	919	202
35°	354	543	789	840	858	222
45°	296	464	691	734	751	228
55°	254	365	544	547	537	226
65°	194	245	327	265	236	190
75°	102	113	117	100	95	109
85°	28	24	26	23	21	30
90°	10	11	10	12	9	7
95°	24	25	15	13	14	21
105°	41	57	188	236	155	44
115°	63	73	162	330	384	63
125°	84	95	153	262	308	75
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°	608.0	608.0	608.0	608.0	608.0
2.5°	603.5	612.3	612.5	616.0	620.4
5°	596.7	614.6	630.6	652.2	667.4
7.5°	582.5	614.6	665.7	715.7	740.6
10°	571.2	615.5	692.8	760.0	790.4
12.5°	556.5	615.1	720.0	800.8	835.6
15°	533.0	614.6	759.3	850.5	883.7
17.5°	505.9	612.1	790.1	881.5	910.5
20°	487.8	609.5	805.9	892.8	921.9
22.5°	467.4	603.5	815.0	898.4	925.3
25°	438.3	594.5	821.5	898.3	919.0
27.5°	409.7	581.7	821.8	886.9	904.6
30°	391.6	571.4	817.2	875.6	892.2
32.5°	375.8	560.0	808.2	862.0	879.7
35°	353.5	542.9	789.0	840.3	858.2
37.5°	334.2	523.4	764.6	814.6	835.6
40°	319.5	507.6	746.5	796.4	813.0
42.5°	308.2	490.7	725.0	773.7	788.1
45°	295.5	464.2	691.4	734.2	750.8
47.5°	281.9	436.8	652.7	693.1	703.8
50°	272.9	416.7	622.1	659.0	663.1
52.5°	267.2	395.5	592.7	615.9	616.7
55°	254.5	365.1	544.4	547.0	537.3
57.5°	237.5	329.6	483.0	469.2	445.9
60°	226.2	305.0	441.1	413.5	380.3
62.5°	214.9	281.5	397.0	352.3	313.6
65°	193.7	244.9	326.6	265.2	236.1
67.5°	169.1	204.5	256.5	198.4	179.0
70°	149.9	177.5	207.8	162.3	148.5
72.5°	131.8	150.6	168.3	134.2	127.0
75°	101.8	112.9	117.4	100.3	94.7
77.5°	74.9	75.5	81.4	70.6	67.9
80°	58.0	55.2	62.2	53.7	50.9
82.5°	44.4	40.5	45.2	39.0	37.3
85°	28.3	24.1	25.5	22.6	21.2
87.5°	16.7	13.6	13.4	12.4	10.8
90°	9.9	10.9	10.5	11.5	8.7
92.5°	15.7	13.4	11.8	12.5	10.5
95°	23.7	25.1	15.2	13.4	14.0
97.5°	28.3	38.6	65.0	20.4	16.6
100°	32.0	44.7	124.0	38.0	24.7
102.5°	35.7	50.4	166.2	94.7	51.2
105°	41.3	56.8	187.9	236.0	155.2
107.5°	48.4	58.6	179.5	342.8	319.8
110°	52.1	62.6	174.7	360.1	385.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.0	67.5	169.8	350.0	393.6
115°	62.9	73.4	162.5	330.3	384.5
117.5°	70.1	80.7	160.7	309.1	364.8
120°	74.6	85.6	157.4	292.9	351.0
122.5°	78.7	89.3	152.2	279.0	332.3
125°	84.4	95.3	153.4	262.2	308.4
127.5°	88.9	101.1	152.2	242.4	288.3
130°	92.1	104.0	153.0	228.3	272.9
132.5°	93.9	105.8	150.7	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)