

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334952

Luminaire Tested: **S124IW-S1050U930-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IW-S1050U930-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3419.7 lumens
Efficiency: N/A
Efficacy: 174.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

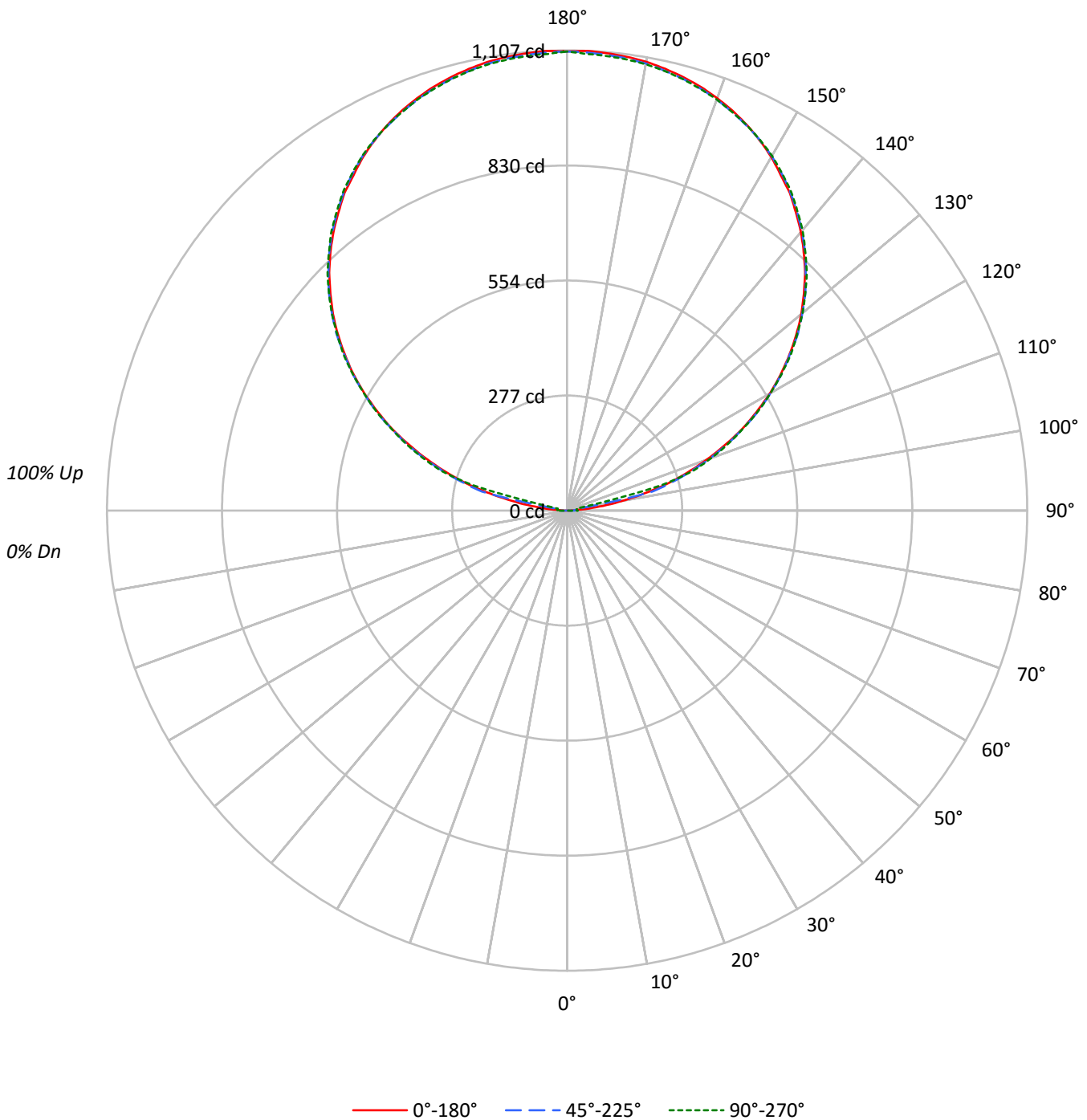
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	2.3	0.1
90°-100°	36.6	1.1
100°-110°	241.4	7.1
110°-120°	461.0	13.5
120°-130°	585.3	17.1
130°-140°	626.1	18.3
140°-150°	585.5	17.1
150°-160°	472.1	13.8
160°-170°	304.5	8.9
170°-180°	104.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	739.1	21.6
90°-150°	2535.9	74.2
90°-180°	3417.0	99.9
0°-180°	3419.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	12	18	23	25	2
95°	45	17	18	23	24	56
105°	249	254	258	265	235	260
115°	464	467	466	468	468	457
125°	653	656	654	657	658	583
135°	810	809	812	814	815	624
145°	933	936	936	937	938	583
155°	1024	1024	1022	1025	1023	472
165°	1080	1076	1076	1082	1075	305
175°	1104	1100	1100	1108	1098	105
180°	1104	1104	1104	1104	1104	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	2.5	11.6	18.2	23.1	24.8
92.5°	12.4	10.7	17.3	22.3	22.3
95°	45.4	17.3	18.2	23.1	24.0
97.5°	86.7	104.9	18.2	22.3	23.1
100°	135.5	150.3	36.3	22.3	23.1
102.5°	190.0	199.9	209.8	24.0	24.0
105°	248.6	253.6	257.7	265.2	235.4
107.5°	302.3	304.8	310.6	314.7	318.0
110°	356.9	359.3	364.3	365.9	368.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	409.7	414.7	416.3	415.5	418.8
115°	464.2	466.7	465.9	467.5	467.5
117.5°	513.0	516.3	518.8	517.9	517.9
120°	562.5	565.8	565.0	566.7	565.0
122.5°	608.8	610.4	612.1	612.9	611.3
125°	652.6	655.9	654.2	656.7	657.5
127.5°	694.7	695.5	699.7	698.8	698.0
130°	735.2	736.0	738.5	739.3	739.3
132.5°	772.4	774.0	777.3	778.1	777.3
135°	809.5	808.7	812.0	813.7	815.3
137.5°	842.6	842.6	846.7	848.3	847.5
140°	874.8	876.4	878.1	880.6	881.4
142.5°	903.7	907.0	907.8	909.5	909.5
145°	933.4	935.9	935.9	936.7	938.4
147.5°	956.6	961.5	960.7	961.5	962.3
150°	982.2	985.5	984.6	984.6	985.5
152.5°	1003.6	1006.1	1004.5	1006.1	1005.3
155°	1023.5	1024.3	1021.8	1025.1	1022.6
157.5°	1040.8	1040.8	1037.5	1041.6	1037.5
160°	1055.7	1053.2	1052.4	1057.3	1052.4
162.5°	1068.9	1065.6	1064.8	1069.7	1063.9
165°	1079.6	1075.5	1075.5	1082.1	1074.7
167.5°	1088.7	1084.6	1083.8	1091.2	1082.9
170°	1096.2	1091.2	1092.0	1098.6	1090.4
172.5°	1101.1	1096.2	1097.0	1103.6	1094.5
175°	1104.4	1099.5	1100.3	1107.7	1097.8
177.5°	1106.9	1101.1	1102.8	1109.4	1099.5
180°	1104.4	1104.4	1104.4	1104.4	1104.4

(END OF REPORT)