

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: P334892

Luminaire Tested: **S124IW-S1050U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IW-S1050U940-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3243.3 lumens
Efficiency: N/A
Efficacy: 165.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

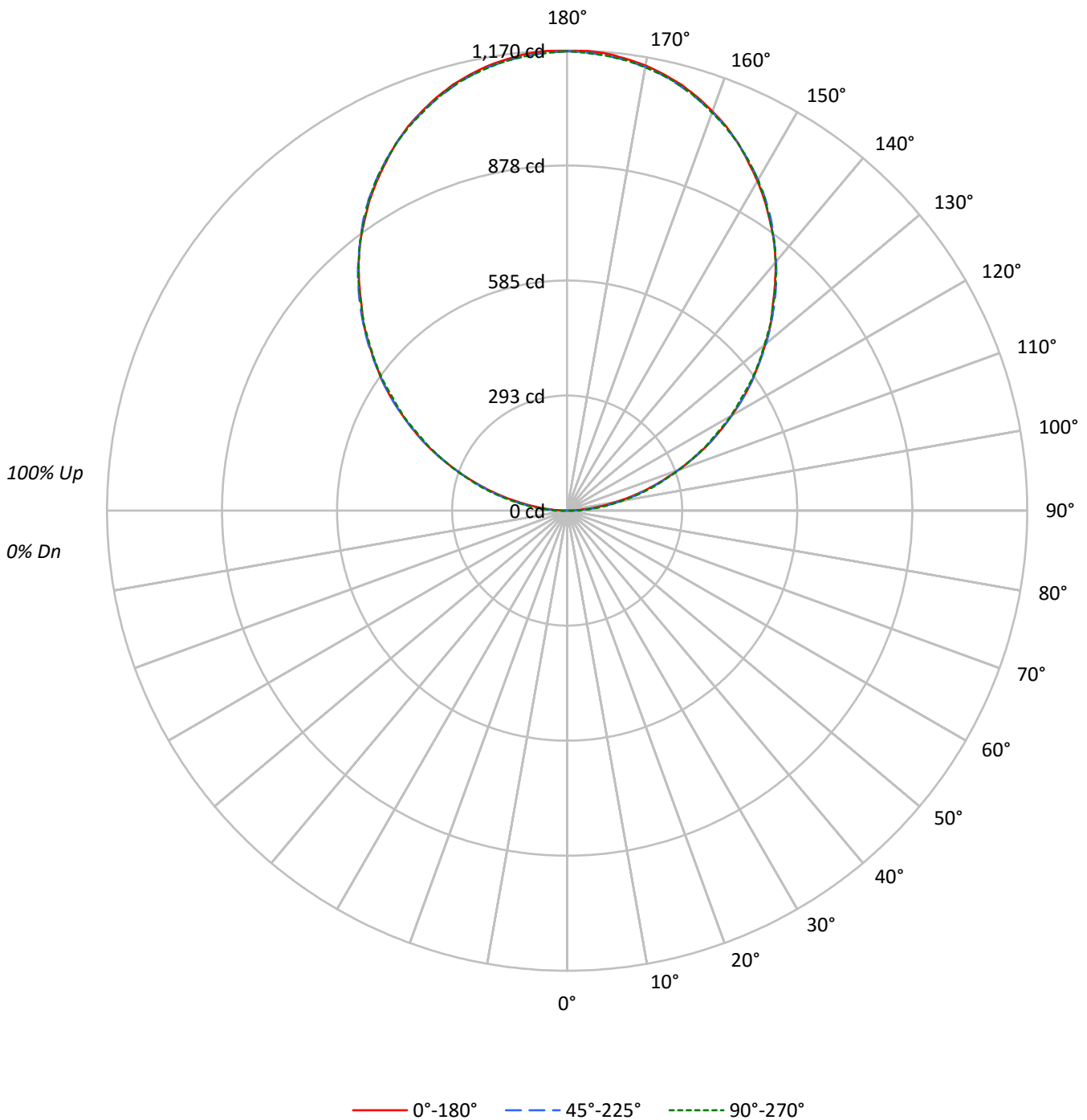
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.5	0.1
90°-100°	76.1	2.3
100°-110°	228.0	7.0
110°-120°	387.4	11.9
120°-130°	510.9	15.8
130°-140°	573.8	17.7
140°-150°	564.0	17.4
150°-160°	474.4	14.6
160°-170°	315.6	9.7
170°-180°	110.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.5	0.1
90°-120°	691.6	21.3
90°-150°	2340.3	72.2
90°-180°	3241.0	99.9
0°-180°	3243.3	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°	3	13	20	25	27	4
95°	54	62	69	71	71	59
105°	210	211	215	218	220	223
115°	394	394	392	391	390	388
125°	574	574	573	571	569	511
135°	740	745	745	743	741	572
145°	899	902	903	902	900	563
155°	1030	1030	1029	1032	1029	474
165°	1121	1118	1116	1122	1118	316
175°	1166	1162	1161	1167	1161	111
180°	1168	1168	1168	1168	1168	



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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°	2.7	12.6	19.9	25.3	27.1
92.5°	23.5	35.2	39.7	42.5	43.4
95°	54.2	62.3	68.7	71.4	71.4
97.5°	86.7	93.9	101.2	104.8	104.8
100°	126.5	130.1	138.2	140.0	140.0
102.5°	168.0	168.9	176.2	178.9	179.8
105°	210.5	211.4	215.0	217.7	220.4
107.5°	254.7	255.6	256.5	260.2	259.3
110°	299.9	301.7	300.8	299.0	301.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	346.9	346.9	345.1	<i>345.1</i>	345.1
115°	393.9	393.9	392.0	<i>391.1</i>	390.2
117.5°	438.1	438.1	437.2	<i>434.5</i>	431.8
120°	482.4	486.0	483.3	<i>478.8</i>	480.6
122.5°	528.5	529.4	528.5	<i>525.7</i>	521.2
125°	573.6	573.6	572.7	<i>570.9</i>	569.1
127.5°	614.3	617.0	615.2	<i>613.4</i>	612.5
130°	657.6	660.3	660.3	<i>658.5</i>	654.9
132.5°	701.9	703.7	702.8	<i>701.0</i>	700.1
135°	739.8	745.3	745.3	<i>743.4</i>	740.7
137.5°	782.3	785.0	786.8	<i>784.1</i>	785.0
140°	824.8	826.6	826.6	<i>825.7</i>	824.8
142.5°	863.6	865.4	864.5	<i>864.5</i>	864.5
145°	898.8	902.4	903.3	<i>902.4</i>	899.7
147.5°	935.0	939.5	938.6	<i>937.7</i>	936.8
150°	967.5	971.1	971.1	<i>971.1</i>	970.2
152.5°	998.2	1000.0	1000.9	<i>1003.6</i>	1000.9
155°	1029.8	1029.8	1028.9	<i>1032.5</i>	1028.9
157.5°	1056.9	1055.1	1055.1	<i>1057.8</i>	1055.1
160°	1080.4	1079.5	1078.6	<i>1081.3</i>	1076.8
162.5°	1102.1	1099.4	1098.5	<i>1103.9</i>	1099.4
165°	1121.0	1118.3	1116.5	<i>1121.9</i>	1118.3
167.5°	1136.4	1132.8	1132.8	<i>1138.2</i>	1132.8
170°	1149.0	1144.5	1145.4	<i>1150.9</i>	1144.5
172.5°	1158.1	1154.5	1154.5	<i>1160.8</i>	1154.5
175°	1166.2	1161.7	1160.8	<i>1167.1</i>	1160.8
177.5°	<i>1169.8</i>	<i>1165.3</i>	<i>1165.3</i>	<i>1171.6</i>	<i>1164.4</i>
180°	1168.0	1168.0	1168.0	<i>1168.0</i>	1168.0

(END OF REPORT)