

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: P334887

Luminaire Tested: **S124IW-S1050U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334887
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-S1050U935-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3131.6 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

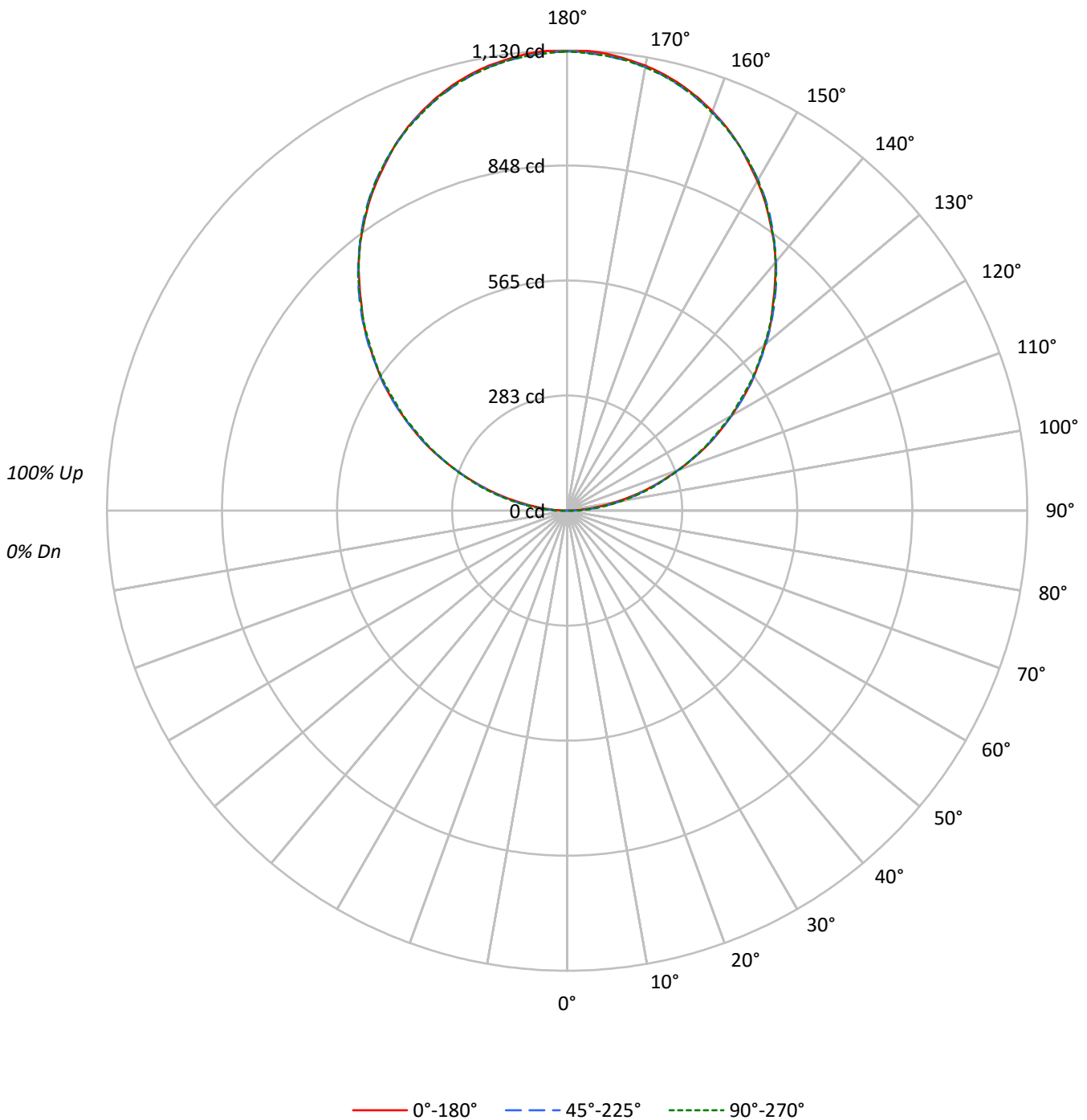
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.4	0.1
90°-100°	73.5	2.3
100°-110°	220.2	7.0
110°-120°	374.0	11.9
120°-130°	493.3	15.8
130°-140°	554.1	17.7
140°-150°	544.6	17.4
150°-160°	458.0	14.6
160°-170°	304.8	9.7
170°-180°	106.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	667.7	21.3
90°-150°	2259.7	72.2
90°-180°	3129.0	99.9
0°-180°	3131.6	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	12	19	24	26	4
95°	52	60	66	69	69	57
105°	203	204	208	210	213	215
115°	380	380	378	378	377	375
125°	554	554	553	551	550	494
135°	714	720	720	718	715	553
145°	868	871	872	871	869	543
155°	994	994	994	997	994	458
165°	1082	1080	1078	1083	1080	305
175°	1126	1122	1121	1127	1121	107
180°	1128	1128	1128	1128	1128	



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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°	2.6	12.2	19.2	24.4	26.2
92.5°	22.7	34.0	38.4	41.0	41.9
95°	52.3	60.2	66.3	68.9	68.9
97.5°	83.7	90.7	97.7	101.2	101.2
100°	122.1	125.6	133.5	135.2	135.2
102.5°	162.2	163.1	170.1	172.7	173.6
105°	203.2	204.1	207.6	210.2	212.8
107.5°	246.0	246.8	247.7	251.2	250.3
110°	289.6	291.3	290.5	288.7	291.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	334.9	334.9	333.2	333.2	333.2
115°	380.3	380.3	378.5	377.7	376.8
117.5°	423.0	423.0	422.2	419.5	416.9
120°	465.8	469.3	466.6	462.3	464.0
122.5°	510.3	511.1	510.3	507.6	503.3
125°	553.9	553.9	553.0	551.2	549.5
127.5°	593.1	595.7	594.0	592.2	591.4
130°	635.0	637.6	637.6	635.9	632.4
132.5°	677.7	679.5	678.6	676.8	676.0
135°	714.4	719.6	719.6	717.8	715.2
137.5°	755.4	758.0	759.7	757.1	758.0
140°	796.3	798.1	798.1	797.2	796.3
142.5°	833.9	835.6	834.7	834.7	834.7
145°	867.9	871.4	872.2	871.4	868.7
147.5°	902.8	907.1	906.2	905.4	904.5
150°	934.2	937.6	937.6	937.6	936.8
152.5°	963.8	965.6	966.4	969.0	966.4
155°	994.3	994.3	993.5	997.0	993.5
157.5°	1020.5	1018.8	1018.8	1021.4	1018.8
160°	1043.2	1042.3	1041.4	1044.1	1039.7
162.5°	1064.1	1061.5	1060.6	1065.9	1061.5
165°	1082.4	1079.8	1078.1	1083.3	1079.8
167.5°	1097.3	1093.8	1093.8	1099.0	1093.8
170°	1109.5	1105.1	1106.0	1111.2	1105.1
172.5°	1118.2	1114.7	1114.7	1120.8	1114.7
175°	1126.0	1121.7	1120.8	1126.9	1120.8
177.5°	1129.5	1125.2	1125.2	1131.3	1124.3
180°	1127.8	1127.8	1127.8	1127.8	1127.8

(END OF REPORT)