

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: P334937

Luminaire Tested: **S124IW-S1050U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334937
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-S1050U835-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4194.5 lumens
Efficiency: N/A
Efficacy: 214.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

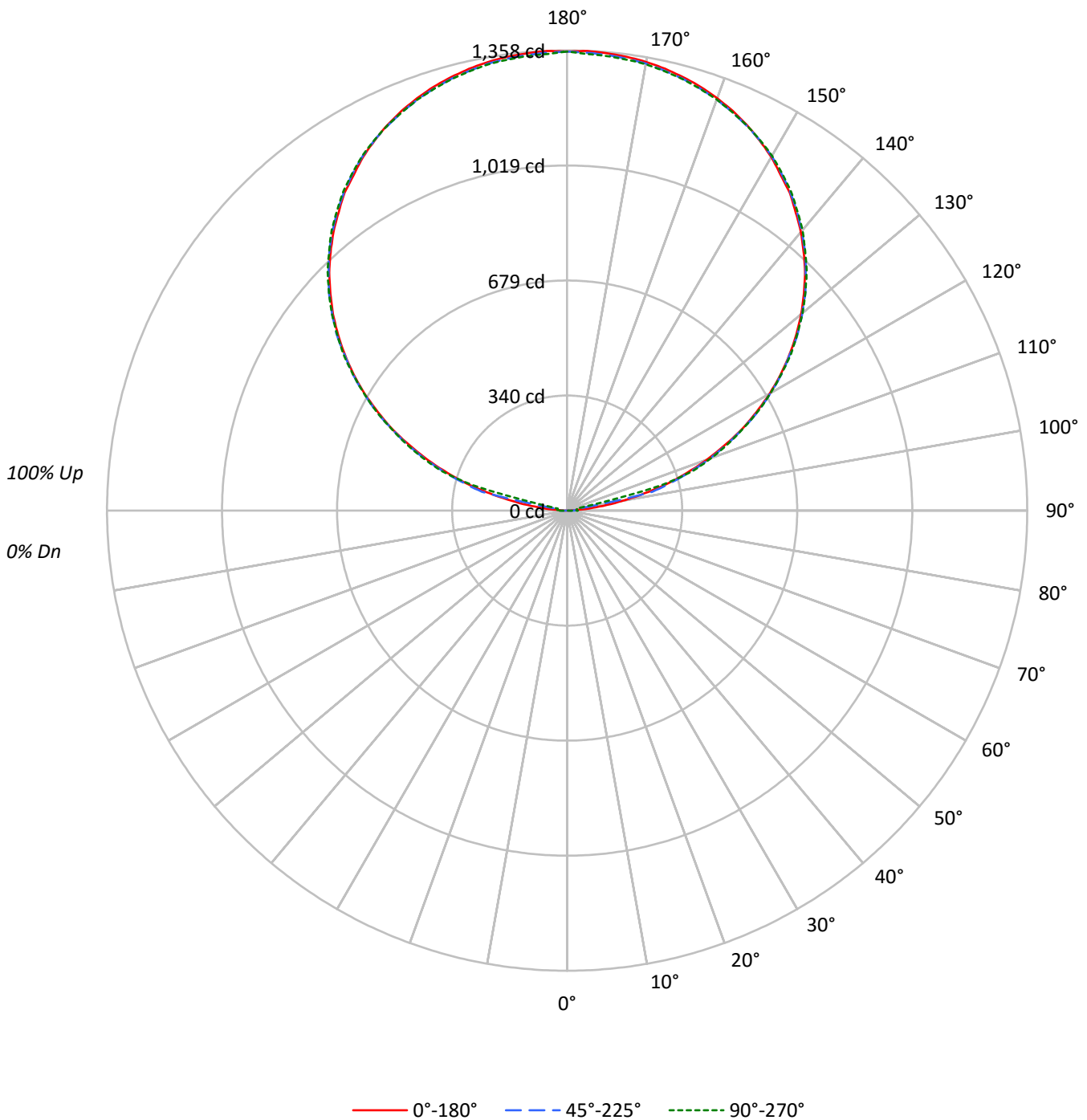
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.8	0.1
90°-100°	45.0	1.1
100°-110°	296.1	7.1
110°-120°	565.5	13.5
120°-130°	717.8	17.1
130°-140°	767.9	18.3
140°-150°	718.1	17.1
150°-160°	579.1	13.8
160°-170°	373.5	8.9
170°-180°	128.7	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	906.6	21.6
90°-150°	3110.4	74.2
90°-180°	4192.0	99.9
0°-180°	4194.5	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	14	22	28	30	3
95°	56	21	22	28	29	69
105°	305	311	316	325	289	319
115°	569	572	571	574	574	560
125°	800	804	802	806	806	715
135°	993	992	996	998	1000	765
145°	1145	1148	1148	1149	1151	715
155°	1255	1256	1253	1257	1254	579
165°	1324	1319	1319	1327	1318	374
175°	1355	1348	1350	1359	1346	129
180°	1355	1355	1355	1355	1355	



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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°	3.0	14.2	22.3	28.4	30.4
92.5°	15.2	13.2	21.3	27.4	27.4
95°	55.7	21.3	22.3	28.4	29.4
97.5°	106.4	128.7	22.3	27.4	28.4
100°	166.2	184.4	44.6	27.4	28.4
102.5°	233.0	245.2	257.3	29.4	29.4
105°	305.0	311.0	316.1	325.2	288.8
107.5°	370.8	373.9	381.0	386.0	390.1
110°	437.7	440.7	446.8	448.8	451.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	502.5	508.6	510.6	509.6	513.7
115°	569.4	572.4	571.4	573.5	573.5
117.5°	629.2	633.2	636.3	635.3	635.3
120°	690.0	694.0	693.0	695.0	693.0
122.5°	746.7	748.7	750.8	751.8	749.8
125°	800.4	804.5	802.4	805.5	806.5
127.5°	852.1	853.1	858.2	857.1	856.1
130°	901.7	902.7	905.8	906.8	906.8
132.5°	947.3	949.3	953.4	954.4	953.4
135°	992.9	991.9	996.0	998.0	1000.0
137.5°	1033.4	1033.4	1038.5	1040.5	1039.5
140°	1073.0	1075.0	1077.0	1080.0	1081.1
142.5°	1108.4	1112.5	1113.5	1115.5	1115.5
145°	1144.9	1147.9	1147.9	1148.9	1151.0
147.5°	1173.3	1179.3	1178.3	1179.3	1180.4
150°	1204.7	1208.7	1207.7	1207.7	1208.7
152.5°	1231.0	1234.1	1232.0	1234.1	1233.0
155°	1255.3	1256.3	1253.3	1257.4	1254.3
157.5°	1276.6	1276.6	1272.6	1277.6	1272.6
160°	1294.8	1291.8	1290.8	1296.9	1290.8
162.5°	1311.1	1307.0	1306.0	1312.1	1305.0
165°	1324.2	1319.2	1319.2	1327.3	1318.1
167.5°	1335.4	1330.3	1329.3	1338.4	1328.3
170°	1344.5	1338.4	1339.4	1347.5	1337.4
172.5°	1350.6	1344.5	1345.5	1353.6	1342.5
175°	1354.6	1348.5	1349.6	1358.7	1346.5
177.5°	1357.7	1350.6	1352.6	1360.7	1348.5
180°	1354.6	1354.6	1354.6	1354.6	1354.6

(END OF REPORT)