

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: P334942

Luminaire Tested: **S124IW-S1050U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334942
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-S1050U840-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1050 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.8 lumens
Efficiency: N/A
Efficacy: 216.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

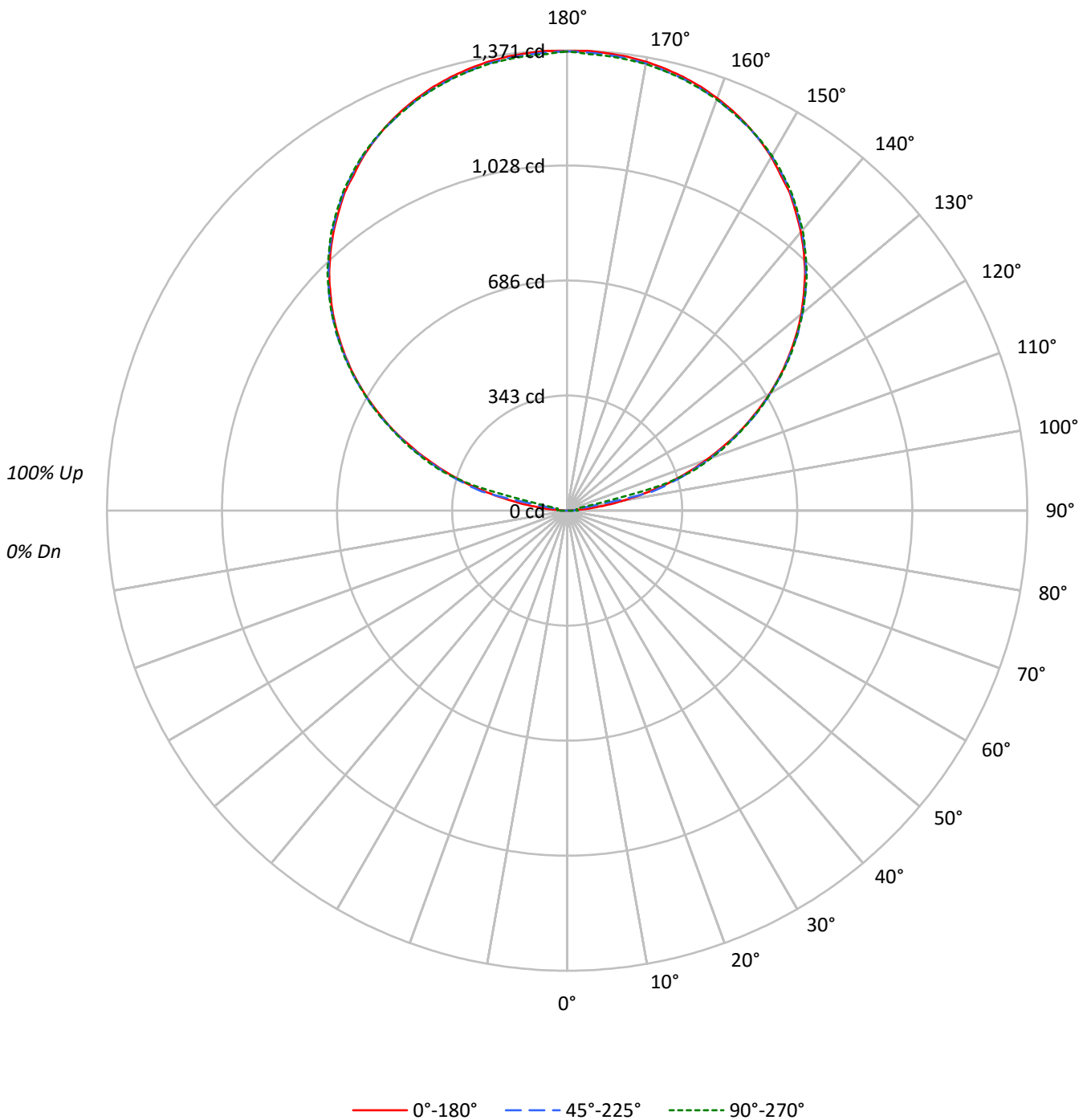
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334942

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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°	45.4	1.1
100°-110°	299.0	7.1
110°-120°	571.0	13.5
120°-130°	724.9	17.1
130°-140°	775.5	18.3
140°-150°	725.2	17.1
150°-160°	584.8	13.8
160°-170°	377.1	8.9
170°-180°	130.0	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°	915.5	21.6
90°-150°	3141.1	74.2
90°-180°	4233.0	99.9
0°-180°	4235.8	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	29	31	3
95°	56	22	22	29	30	69
105°	308	314	319	328	292	322
115°	575	578	577	579	579	566
125°	808	812	810	813	814	722
135°	1003	1002	1006	1008	1010	773
145°	1156	1159	1159	1160	1162	722
155°	1268	1269	1266	1270	1267	585
165°	1337	1332	1332	1340	1331	378
175°	1368	1362	1363	1372	1360	130
180°	1368	1368	1368	1368	1368	



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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°	3.1	14.3	22.5	28.6	30.7
92.5°	15.3	13.3	21.5	27.6	27.6
95°	56.3	21.5	22.5	28.6	29.7
97.5°	107.4	129.9	22.5	27.6	28.6
100°	167.8	186.2	45.0	27.6	28.6
102.5°	235.3	247.6	259.9	29.7	29.7
105°	308.0	314.1	319.2	328.4	291.6
107.5°	374.5	377.6	384.7	389.8	393.9
110°	442.0	445.1	451.2	453.3	456.3



TEST NUMBER: P334942

CATALOG NUMBER: S124IW-S1050U840-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	507.5	513.6	515.7	514.7	518.7
115°	575.0	578.1	577.1	579.1	579.1
117.5°	635.4	639.5	642.6	641.5	641.5
120°	696.8	700.9	699.8	701.9	699.8
122.5°	754.1	756.1	758.2	759.2	757.1
125°	808.3	812.4	810.4	813.4	814.4
127.5°	860.5	861.5	866.6	865.6	864.6
130°	910.6	911.6	914.7	915.7	915.7
132.5°	956.7	958.7	962.8	963.8	962.8
135°	1002.7	1001.7	1005.8	1007.8	1009.9
137.5°	1043.6	1043.6	1048.8	1050.8	1049.8
140°	1083.5	1085.6	1087.6	1090.7	1091.7
142.5°	1119.4	1123.4	1124.5	1126.5	1126.5
145°	1156.2	1159.3	1159.3	1160.3	1162.3
147.5°	1184.8	1191.0	1189.9	1191.0	1192.0
150°	1216.6	1220.6	1219.6	1219.6	1220.6
152.5°	1243.2	1246.2	1244.2	1246.2	1245.2
155°	1267.7	1268.7	1265.7	1269.8	1266.7
157.5°	1289.2	1289.2	1285.1	1290.2	1285.1
160°	1307.6	1304.5	1303.5	1309.7	1303.5
162.5°	1324.0	1319.9	1318.9	1325.0	1317.8
165°	1337.3	1332.2	1332.2	1340.4	1331.1
167.5°	1348.5	1343.4	1342.4	1351.6	1341.4
170°	1357.7	1351.6	1352.6	1360.8	1350.6
172.5°	1363.9	1357.7	1358.8	1367.0	1355.7
175°	1368.0	1361.8	1362.9	1372.1	1359.8
177.5°	1371.1	1363.9	1365.9	1374.1	1361.8
180°	1368.0	1368.0	1368.0	1368.0	1368.0

(END OF REPORT)