

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: P334949

Luminaire Tested: **S124IW-S1560U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334949
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-S1560U927-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1560 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4945.7 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

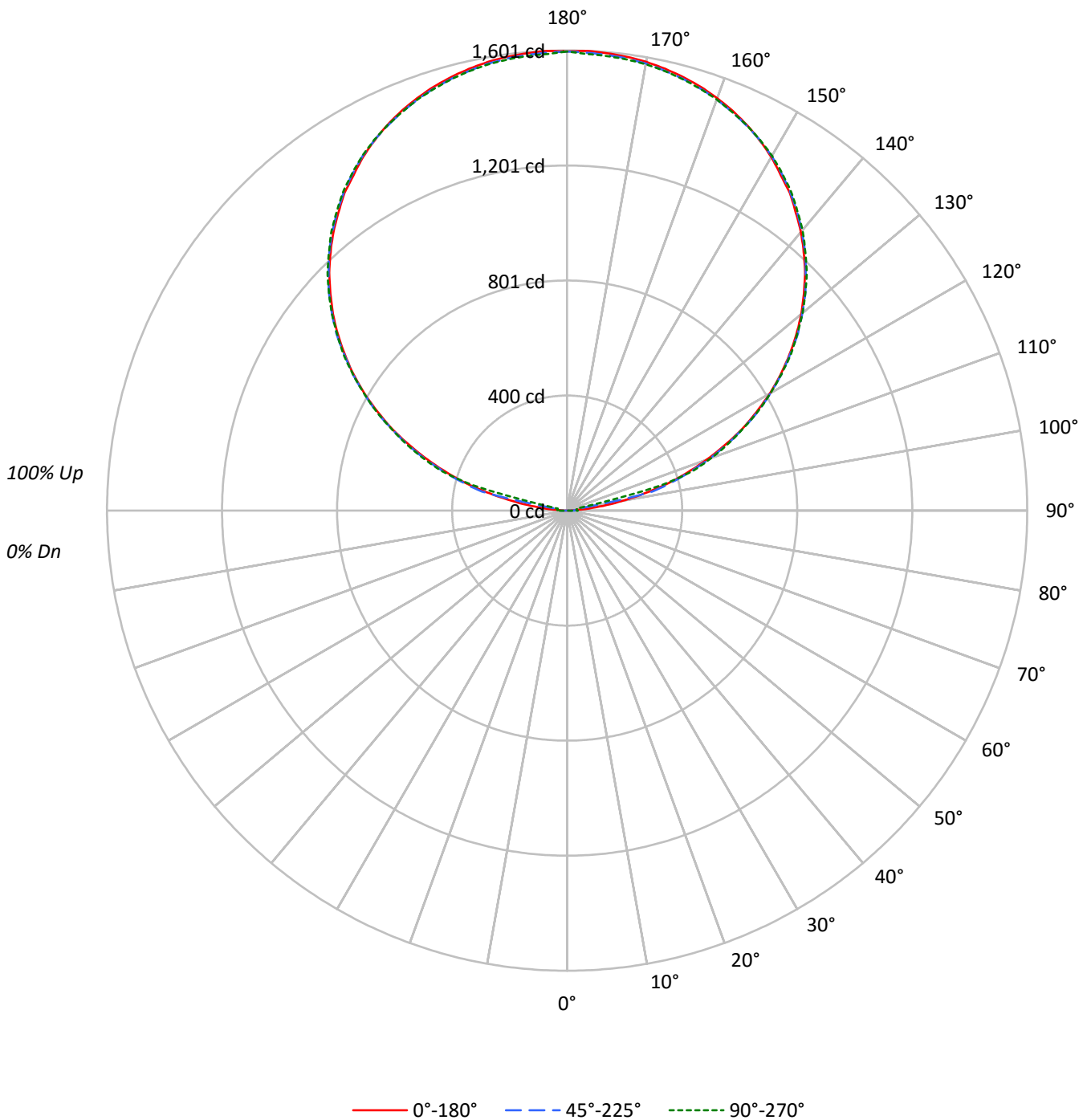
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.3	0.1
90°-100°	53.0	1.1
100°-110°	349.2	7.1
110°-120°	666.7	13.5
120°-130°	846.4	17.1
130°-140°	905.5	18.3
140°-150°	846.7	17.1
150°-160°	682.8	13.8
160°-170°	440.3	8.9
170°-180°	151.8	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.3	0.1
90°-120°	1068.9	21.6
90°-150°	3667.5	74.2
90°-180°	4942.0	99.9
0°-180°	4945.7	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°	4	17	26	33	36	3
95°	66	25	26	33	35	81
105°	360	367	373	384	340	376
115°	671	675	674	676	676	661
125°	944	948	946	950	951	843
135°	1171	1170	1174	1177	1179	902
145°	1350	1354	1354	1355	1357	844
155°	1480	1481	1478	1483	1479	682
165°	1561	1555	1555	1565	1554	441
175°	1597	1590	1591	1602	1588	152
180°	1597	1597	1597	1597	1597	



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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°	3.6	16.7	26.3	33.4	35.8
92.5°	17.9	15.5	25.1	32.3	32.3
95°	65.7	25.1	26.3	33.4	34.6
97.5°	125.4	151.7	26.3	32.3	33.4
100°	195.9	217.4	52.6	32.3	33.4
102.5°	274.8	289.1	303.4	34.6	34.6
105°	359.6	366.8	372.7	383.5	340.5
107.5°	437.2	440.8	449.2	455.2	459.9
110°	516.1	519.7	526.8	529.2	532.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	592.5	599.7	602.1	600.9	605.7
115°	671.4	675.0	673.8	676.2	676.2
117.5°	741.9	746.7	750.2	749.0	749.0
120°	813.6	818.3	817.1	819.5	817.1
122.5°	880.5	882.8	885.2	886.4	884.0
125°	943.8	948.5	946.2	949.7	950.9
127.5°	1004.7	1005.9	1011.9	1010.7	1009.5
130°	1063.2	1064.4	1068.0	1069.2	1069.2
132.5°	1117.0	1119.4	1124.2	1125.4	1124.2
135°	1170.7	1169.6	1174.3	1176.7	1179.1
137.5°	1218.5	1218.5	1224.5	1226.9	1225.7
140°	1265.1	1267.5	1269.9	1273.5	1274.7
142.5°	1306.9	1311.7	1312.9	1315.3	1315.3
145°	1349.9	1353.5	1353.5	1354.7	1357.1
147.5°	1383.4	1390.6	1389.4	1390.6	1391.8
150°	1420.4	1425.2	1424.0	1424.0	1425.2
152.5°	1451.5	1455.1	1452.7	1455.1	1453.9
155°	1480.2	1481.4	1477.8	1482.6	1479.0
157.5°	1505.2	1505.2	1500.5	1506.4	1500.5
160°	1526.8	1523.2	1522.0	1529.1	1522.0
162.5°	1545.9	1541.1	1539.9	1547.1	1538.7
165°	1561.4	1555.4	1555.4	1565.0	1554.2
167.5°	1574.5	1568.6	1567.4	1578.1	1566.2
170°	1585.3	1578.1	1579.3	1588.9	1576.9
172.5°	1592.5	1585.3	1586.5	1596.0	1582.9
175°	1597.2	1590.1	1591.3	1602.0	1587.7
177.5°	1600.8	1592.5	1594.8	1604.4	1590.1
180°	1597.2	1597.2	1597.2	1597.2	1597.2

(END OF REPORT)