

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: P334894

Luminaire Tested: **S124IW-S1560U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334894
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-S1560U940-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1560 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4827.4 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

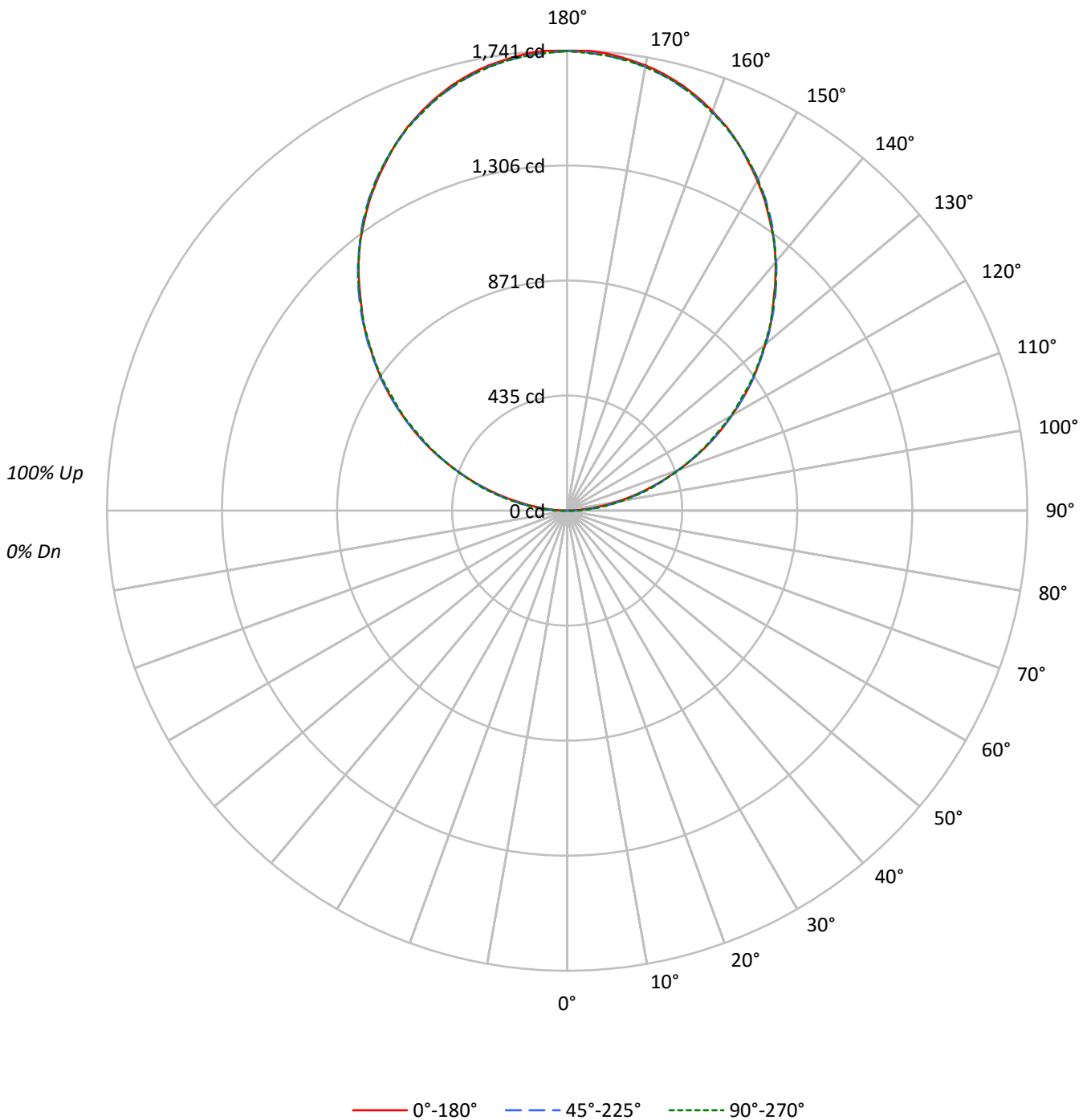
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.7	0.1
90°-100°	113.3	2.3
100°-110°	339.4	7.0
110°-120°	576.6	11.9
120°-130°	760.4	15.8
130°-140°	854.1	17.7
140°-150°	839.5	17.4
150°-160°	706.1	14.6
160°-170°	469.8	9.7
170°-180°	164.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.7	0.1
90°-120°	1029.3	21.3
90°-150°	3483.4	72.2
90°-180°	4824.0	99.9
0°-180°	4827.4	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	19	30	38	40	6
95°	81	93	102	106	106	87
105°	313	315	320	324	328	332
115°	586	586	584	582	581	578
125°	854	854	852	850	847	761
135°	1101	1109	1109	1107	1102	852
145°	1338	1343	1345	1343	1339	837
155°	1533	1533	1531	1537	1531	705
165°	1669	1665	1662	1670	1665	470
175°	1736	1729	1728	1737	1728	165
180°	1738	1738	1738	1738	1738	



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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°	4.0	18.8	29.6	37.6	40.3
92.5°	35.0	52.4	59.2	63.2	64.5
95°	80.7	92.8	102.2	106.2	106.2
97.5°	129.1	139.8	150.6	156.0	156.0
100°	188.2	193.6	205.7	208.4	208.4
102.5°	250.1	251.4	262.2	266.2	267.6
105°	313.3	314.6	320.0	324.0	328.1
107.5°	379.2	380.5	381.9	387.2	385.9
110°	446.4	449.1	447.7	445.0	449.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	516.3	516.3	513.6	513.6	513.6
115°	586.2	586.2	583.5	582.2	580.8
117.5°	652.1	652.1	650.8	646.7	642.7
120°	718.0	723.4	719.3	712.6	715.3
122.5°	786.6	787.9	786.6	782.5	775.8
125°	853.8	853.8	852.4	849.8	847.1
127.5°	914.3	918.3	915.6	913.0	911.6
130°	978.8	982.9	982.9	980.2	974.8
132.5°	1044.7	1047.4	1046.1	1043.4	1042.0
135°	1101.2	1109.3	1109.3	1106.6	1102.5
137.5°	1164.4	1168.4	1171.1	1167.1	1168.4
140°	1227.6	1230.3	1230.3	1228.9	1227.6
142.5°	1285.4	1288.1	1286.7	1286.7	1286.7
145°	1337.8	1343.2	1344.6	1343.2	1339.2
147.5°	1391.6	1398.3	1397.0	1395.6	1394.3
150°	1440.0	1445.4	1445.4	1445.4	1444.1
152.5°	1485.7	1488.4	1489.8	1493.8	1489.8
155°	1532.8	1532.8	1531.4	1536.8	1531.4
157.5°	1573.1	1570.4	1570.4	1574.5	1570.4
160°	1608.1	1606.7	1605.4	1609.4	1602.7
162.5°	1640.4	1636.3	1635.0	1643.0	1636.3
165°	1668.6	1664.6	1661.9	1669.9	1664.6
167.5°	1691.5	1686.1	1686.1	1694.1	1686.1
170°	1710.3	1703.6	1704.9	1713.0	1703.6
172.5°	1723.7	1718.3	1718.3	1727.8	1718.3
175°	1735.8	1729.1	1727.8	1737.2	1727.8
177.5°	1741.2	1734.5	1734.5	1743.9	1733.1
180°	1738.5	1738.5	1738.5	1738.5	1738.5

(END OF REPORT)