

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: P334879

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334879
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-S1560U927-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 4288.7 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

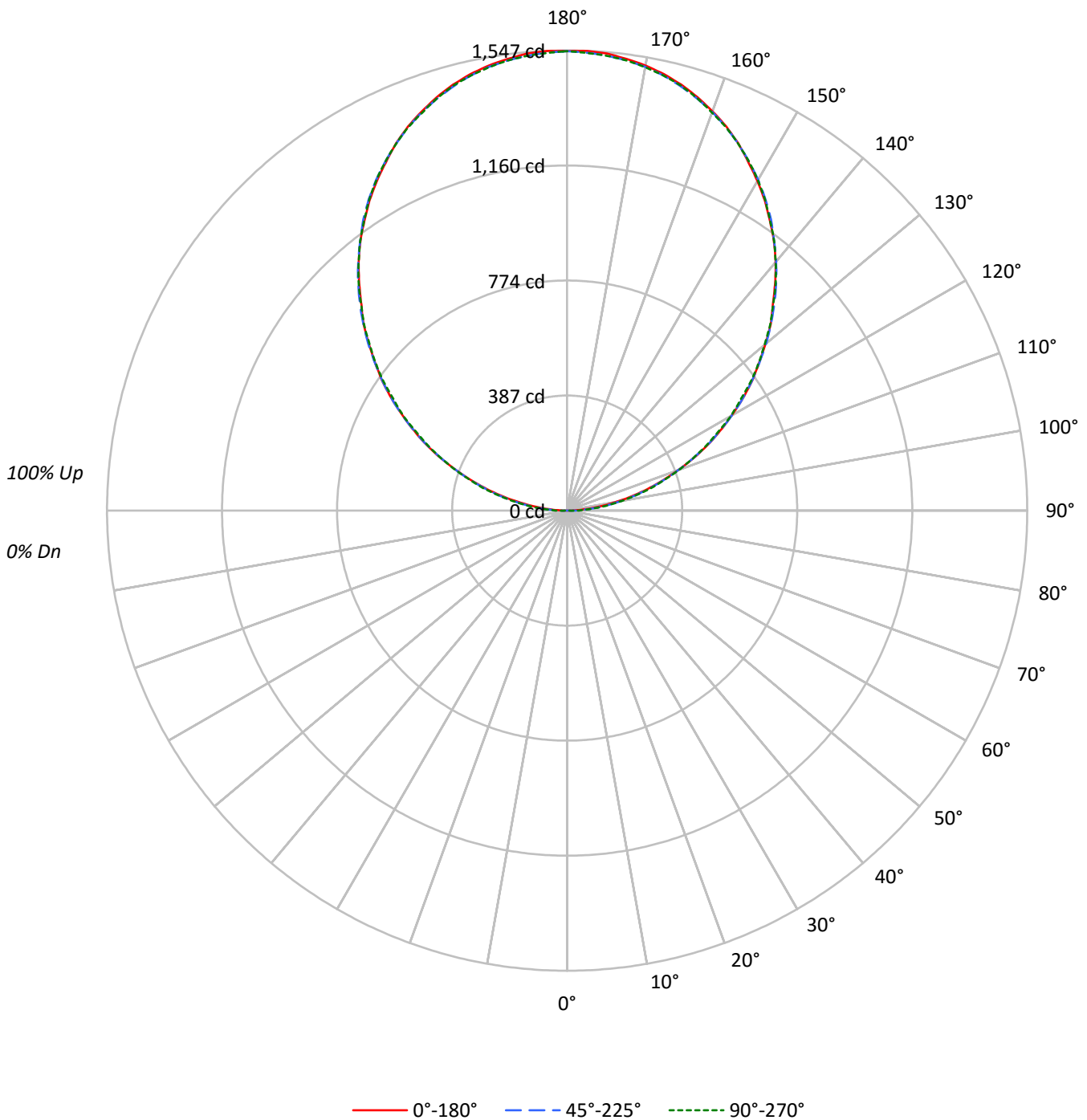
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	100.7	2.3
100°-110°	301.5	7.0
110°-120°	512.2	11.9
120°-130°	675.6	15.8
130°-140°	758.8	17.7
140°-150°	745.8	17.4
150°-160°	627.3	14.6
160°-170°	417.3	9.7
170°-180°	146.1	3.4
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°	914.5	21.3
90°-150°	3094.6	72.2
90°-180°	4285.0	99.9
0°-180°	4288.7	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	5
95°	72	82	91	94	94	78
105°	278	280	284	288	292	295
115°	521	521	518	517	516	514
125°	758	758	757	755	752	676
135°	978	985	985	983	980	757
145°	1188	1193	1194	1193	1190	744
155°	1362	1362	1360	1365	1360	627
165°	1482	1479	1476	1484	1479	418
175°	1542	1536	1535	1543	1535	146
180°	1544	1544	1544	1544	1544	



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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°	31.1	46.6	52.6	56.1	57.3
95°	71.7	82.4	90.8	94.4	94.4
97.5°	114.7	124.2	133.8	138.6	138.6
100°	167.2	172.0	182.8	185.1	185.1
102.5°	222.2	223.4	232.9	236.5	237.7
105°	278.3	279.5	284.3	287.9	291.5
107.5°	336.8	338.0	339.2	344.0	342.8
110°	396.6	399.0	397.8	395.4	399.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	458.7	458.7	456.3	456.3	456.3
115°	520.8	520.8	518.4	517.2	516.0
117.5°	579.3	579.3	578.1	574.5	571.0
120°	637.9	642.6	639.0	633.1	635.5
122.5°	698.8	700.0	698.8	695.2	689.2
125°	758.5	758.5	757.3	754.9	752.5
127.5°	812.2	815.8	813.4	811.1	809.9
130°	869.6	873.2	873.2	870.8	866.0
132.5°	928.1	930.5	929.3	926.9	925.7
135°	978.3	985.4	985.4	983.1	979.5
137.5°	1034.4	1038.0	1040.4	1036.8	1038.0
140°	1090.6	1093.0	1093.0	1091.8	1090.6
142.5°	1141.9	1144.3	1143.1	1143.1	1143.1
145°	1188.5	1193.3	1194.5	1193.3	1189.7
147.5°	1236.3	1242.3	1241.1	1239.9	1238.7
150°	1279.3	1284.1	1284.1	1284.1	1282.9
152.5°	1319.9	1322.3	1323.5	1327.1	1323.5
155°	1361.7	1361.7	1360.5	1365.3	1360.5
157.5°	1397.5	1395.2	1395.2	1398.7	1395.2
160°	1428.6	1427.4	1426.2	1429.8	1423.8
162.5°	1457.3	1453.7	1452.5	1459.7	1453.7
165°	1482.4	1478.8	1476.4	1483.5	1478.8
167.5°	1502.7	1497.9	1497.9	1505.0	1497.9
170°	1519.4	1513.4	1514.6	1521.8	1513.4
172.5°	1531.3	1526.5	1526.5	1534.9	1526.5
175°	1542.1	1536.1	1534.9	1543.3	1534.9
177.5°	1546.9	1540.9	1540.9	1549.2	1539.7
180°	1544.5	1544.5	1544.5	1544.5	1544.5

(END OF REPORT)