

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: P335054

Luminaire Tested: **S125IW-S1560U927-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IW-S1560U927-4F0-1E-UDD-1
Description: DEFINE 5 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: 4287.1 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

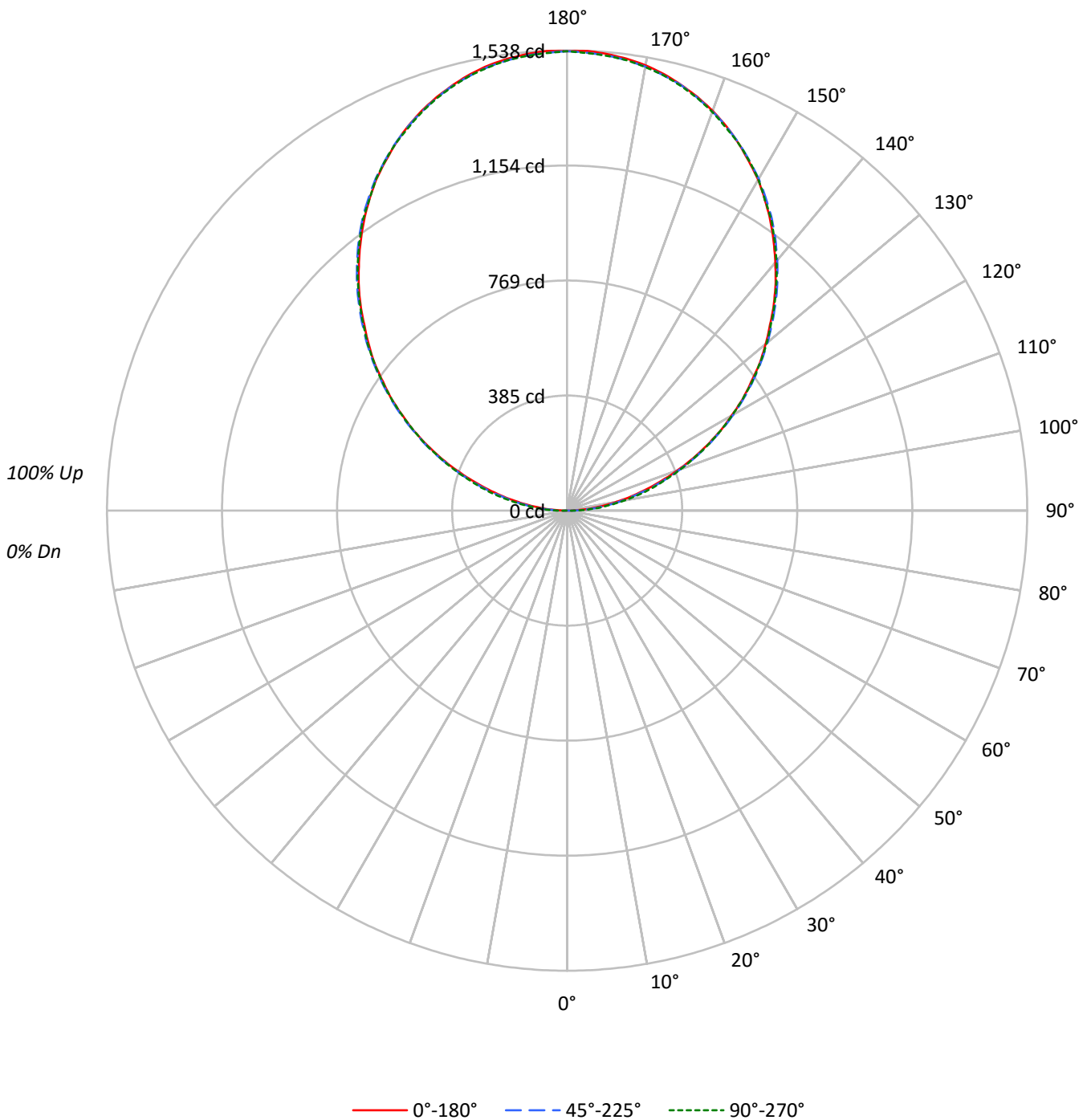
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.4	0.1
90°-100°	102.1	2.4
100°-110°	303.3	7.1
110°-120°	514.4	12.0
120°-130°	677.1	15.8
130°-140°	758.8	17.7
140°-150°	743.8	17.3
150°-160°	624.7	14.6
160°-170°	415.3	9.7
170°-180°	145.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	919.7	21.5
90°-150°	3099.4	72.3
90°-180°	4285.0	100.0
0°-180°	4287.1	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°	1	11	19	25	29	5
95°	78	80	92	100	103	81
105°	272	278	286	293	296	290
115°	515	520	522	521	520	509
125°	752	759	760	758	756	673
135°	977	984	986	986	981	753
145°	1184	1189	1192	1192	1189	740
155°	1355	1355	1356	1361	1355	624
165°	1473	1471	1472	1477	1470	416
175°	1532	1527	1527	1534	1526	146
180°	1535	1535	1535	1535	1535	



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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°	1.2	10.8	19.1	25.1	28.7
92.5°	35.8	41.8	52.6	60.9	63.3
95°	77.7	80.0	92.0	100.4	102.7
97.5°	119.5	120.7	137.4	144.6	145.8
100°	167.3	167.3	182.8	193.5	195.9
102.5°	218.6	224.6	230.6	242.5	246.1
105°	272.4	278.4	285.5	292.7	296.3
107.5°	330.9	336.9	342.9	346.5	346.5
110°	391.9	397.8	401.4	405.0	403.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	454.0	456.4	461.2	462.4	460.0
115°	514.9	519.7	522.1	520.9	519.7
117.5°	577.1	578.3	580.6	581.8	577.1
120°	634.4	640.4	641.6	641.6	636.8
122.5°	696.5	697.7	701.3	700.1	696.5
125°	751.5	758.7	759.9	757.5	756.3
127.5°	812.4	816.0	817.2	816.0	813.6
130°	866.2	872.2	874.5	873.4	871.0
132.5°	919.9	930.7	929.5	928.3	924.7
135°	977.3	984.5	985.7	985.7	980.9
137.5°	1031.1	1038.2	1040.6	1041.8	1035.8
140°	1082.4	1088.4	1092.0	1094.4	1088.4
142.5°	1133.8	1138.6	1143.4	1144.6	1138.6
145°	1184.0	1188.8	1192.4	1192.4	1188.8
147.5°	1230.6	1234.2	1236.6	1240.1	1230.6
150°	1277.2	1276.0	1280.8	1280.8	1278.4
152.5°	1315.4	1317.8	1319.0	1322.6	1317.8
155°	1354.8	1354.8	1356.0	1360.8	1354.8
157.5°	1390.7	1388.3	1389.5	1394.3	1385.9
160°	1421.7	1418.2	1419.4	1424.1	1418.2
162.5°	1449.2	1446.8	1446.8	1452.8	1445.6
165°	1473.1	1470.7	1471.9	1476.7	1469.5
167.5°	1494.6	1489.8	1489.8	1497.0	1489.8
170°	1511.3	1506.6	1506.6	1513.7	1505.4
172.5°	1523.3	1518.5	1518.5	1525.7	1518.5
175°	1531.7	1526.9	1526.9	1534.0	1525.7
177.5°	1537.6	1532.9	1531.7	1538.8	1530.5
180°	1535.2	1535.2	1535.2	1535.2	1535.2

(END OF REPORT)