

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: P335059

Luminaire Tested: **S125IW-S1560U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335059
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-S1560U930-4F0-1E-UDD-1
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1560 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4412.2 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

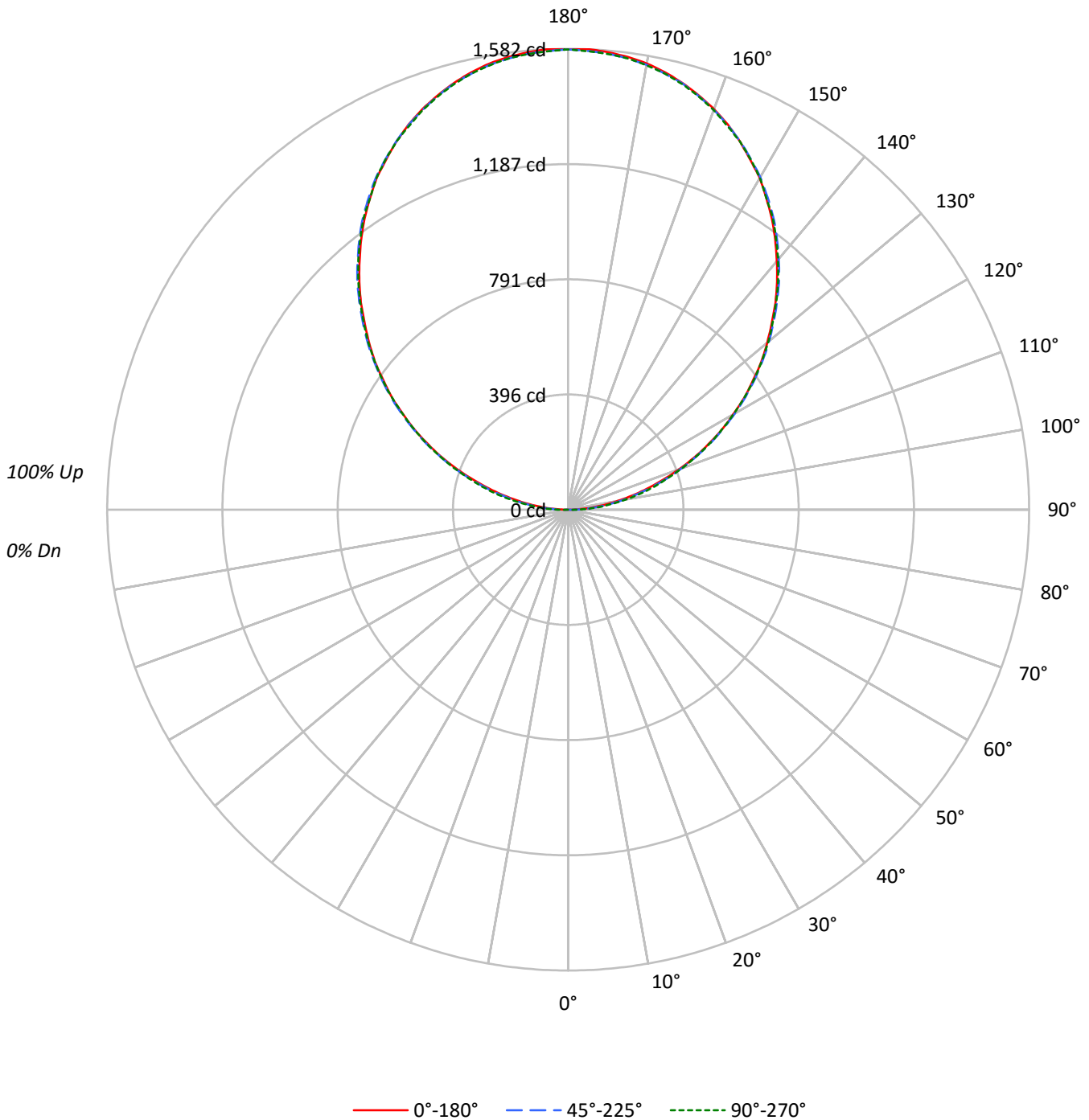
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.5	0.1
90°-100°	105.1	2.4
100°-110°	312.1	7.1
110°-120°	529.4	12.0
120°-130°	696.9	15.8
130°-140°	780.9	17.7
140°-150°	765.4	17.3
150°-160°	643.0	14.6
160°-170°	427.4	9.7
170°-180°	149.6	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.5	0.1
90°-120°	946.6	21.5
90°-150°	3189.8	72.3
90°-180°	4410.0	99.9
0°-180°	4412.2	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	20	26	30	5
95°	80	82	95	103	106	84
105°	280	286	294	301	305	299
115°	530	535	537	536	535	524
125°	773	781	782	780	778	693
135°	1006	1013	1014	1014	1010	775
145°	1218	1224	1227	1227	1224	762
155°	1394	1394	1396	1400	1394	642
165°	1516	1514	1515	1520	1512	428
175°	1576	1571	1571	1579	1570	150
180°	1580	1580	1580	1580	1580	



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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	11.1	19.7	25.8	29.5
92.5°	36.9	43.0	54.1	62.7	65.2
95°	79.9	82.4	94.7	103.3	105.7
97.5°	123.0	124.2	141.4	148.8	150.0
100°	172.1	172.1	188.1	199.2	201.7
102.5°	225.0	231.2	237.3	249.6	253.3
105°	280.3	286.5	293.9	301.3	304.9
107.5°	340.6	346.7	352.9	356.6	356.6
110°	403.3	409.5	413.1	416.8	415.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	467.2	469.7	474.6	475.9	473.4
115°	530.0	534.9	537.3	536.1	534.9
117.5°	593.9	595.1	597.6	598.8	593.9
120°	652.9	659.1	660.3	660.3	655.4
122.5°	716.9	718.1	721.8	720.5	716.9
125°	773.4	780.8	782.0	779.6	778.3
127.5°	836.1	839.8	841.0	839.8	837.4
130°	891.5	897.6	900.1	898.8	896.4
132.5°	946.8	957.9	956.6	955.4	951.7
135°	1005.8	1013.2	1014.4	1014.4	1009.5
137.5°	1061.1	1068.5	1071.0	1072.2	1066.1
140°	1114.0	1120.2	1123.9	1126.3	1120.2
142.5°	1166.9	1171.8	1176.7	1178.0	1171.8
145°	1218.5	1223.5	1227.1	1227.1	1223.5
147.5°	1266.5	1270.2	1272.6	1276.3	1266.5
150°	1314.4	1313.2	1318.1	1318.1	1315.7
152.5°	1353.8	1356.3	1357.5	1361.2	1356.3
155°	1394.4	1394.4	1395.6	1400.5	1394.4
157.5°	1431.3	1428.8	1430.0	1434.9	1426.3
160°	1463.2	1459.5	1460.8	1465.7	1459.5
162.5°	1491.5	1489.1	1489.1	1495.2	1487.8
165°	1516.1	1513.6	1514.9	1519.8	1512.4
167.5°	1538.2	1533.3	1533.3	1540.7	1533.3
170°	1555.4	1550.5	1550.5	1557.9	1549.3
172.5°	1567.7	1562.8	1562.8	1570.2	1562.8
175°	1576.4	1571.4	1571.4	1578.8	1570.2
177.5°	1582.5	1577.6	1576.4	1583.7	1575.1
180°	1580.0	1580.0	1580.0	1580.0	1580.0

(END OF REPORT)