

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: P335049

Luminaire Tested: **S125IW-S1560U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335049
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-S1560U840-4F0-1E-UDD-1
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1560 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5465.2 lumens
Efficiency: N/A
Efficacy: 178.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

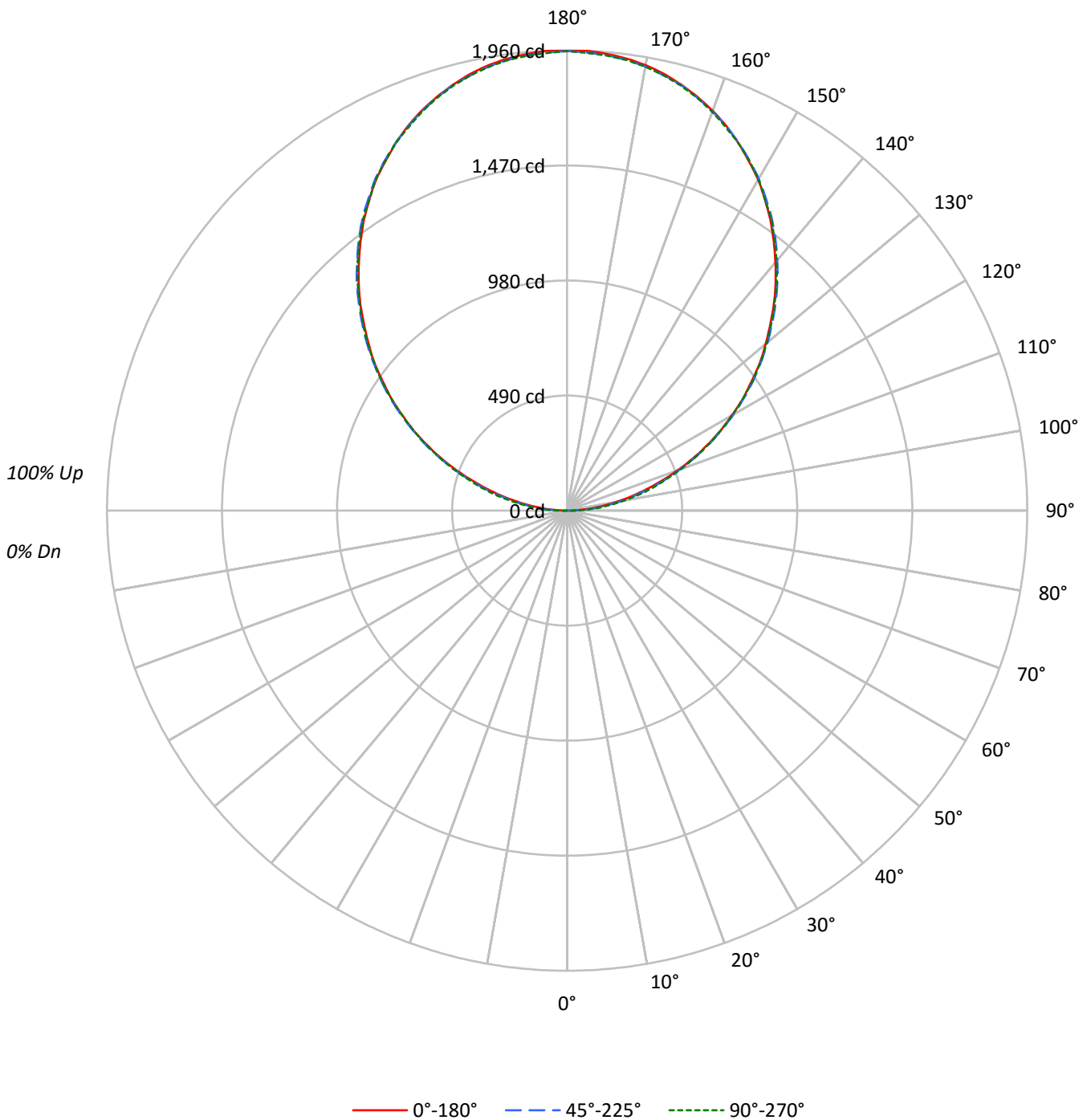
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.1	0.1
90°-100°	130.1	2.4
100°-110°	386.6	7.1
110°-120°	655.7	12.0
120°-130°	863.2	15.8
130°-140°	967.3	17.7
140°-150°	948.1	17.3
150°-160°	796.4	14.6
160°-170°	529.4	9.7
170°-180°	185.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.1	0.1
90°-120°	1172.5	21.5
90°-150°	3951.1	72.3
90°-180°	5462.0	99.9
0°-180°	5465.2	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°	2	14	24	32	37	7
95°	99	102	117	128	131	104
105°	347	355	364	373	378	370
115°	656	662	666	664	662	649
125°	958	967	969	966	964	858
135°	1246	1255	1256	1256	1250	960
145°	1509	1515	1520	1520	1515	944
155°	1727	1727	1729	1735	1727	796
165°	1878	1875	1876	1882	1873	530
175°	1952	1946	1946	1956	1945	186
180°	1957	1957	1957	1957	1957	



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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°	1.5	13.7	24.4	32.0	36.6
92.5°	45.7	53.3	67.0	77.7	80.7
95°	99.0	102.0	117.3	127.9	131.0
97.5°	152.3	153.8	175.1	184.3	185.8
100°	213.2	213.2	233.0	246.7	249.8
102.5°	278.7	286.3	293.9	309.2	313.7
105°	347.3	354.9	364.0	373.1	377.7
107.5°	421.9	429.5	437.1	441.7	441.7
110°	499.6	507.2	511.7	516.3	514.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.8	581.8	587.9	589.4	586.4
115°	656.4	662.5	665.6	664.0	662.5
117.5°	735.6	737.2	740.2	741.7	735.6
120°	808.7	816.4	817.9	817.9	811.8
122.5°	887.9	889.5	894.0	892.5	887.9
125°	958.0	967.1	968.7	965.6	964.1
127.5°	1035.7	1040.2	1041.8	1040.2	1037.2
130°	1104.2	1111.8	1114.9	1113.3	1110.3
132.5°	1172.7	1186.4	1184.9	1183.4	1178.8
135°	1245.8	1255.0	1256.5	1256.5	1250.4
137.5°	1314.4	1323.5	1326.6	1328.1	1320.5
140°	1379.9	1387.5	1392.1	1395.1	1387.5
142.5°	1445.4	1451.5	1457.6	1459.1	1451.5
145°	1509.3	1515.4	1520.0	1520.0	1515.4
147.5°	1568.7	1573.3	1576.3	1580.9	1568.7
150°	1628.1	1626.6	1632.7	1632.7	1629.7
152.5°	1676.9	1679.9	1681.4	1686.0	1679.9
155°	1727.1	1727.1	1728.7	1734.7	1727.1
157.5°	1772.8	1769.8	1771.3	1777.4	1766.7
160°	1812.4	1807.8	1809.4	1815.5	1807.8
162.5°	1847.4	1844.4	1844.4	1852.0	1842.9
165°	1877.9	1874.9	1876.4	1882.5	1873.3
167.5°	1905.3	1899.2	1899.2	1908.4	1899.2
170°	1926.6	1920.6	1920.6	1929.7	1919.0
172.5°	1941.9	1935.8	1935.8	1944.9	1935.8
175°	1952.5	1946.4	1946.4	1955.6	1944.9
177.5°	1960.2	1954.1	1952.5	1961.7	1951.0
180°	1957.1	1957.1	1957.1	1957.1	1957.1

(END OF REPORT)