

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: P335109

Luminaire Tested: **S125IW-S1560U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IW-S1560U830-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1560 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5882.4 lumens
Efficiency: N/A
Efficacy: 192.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

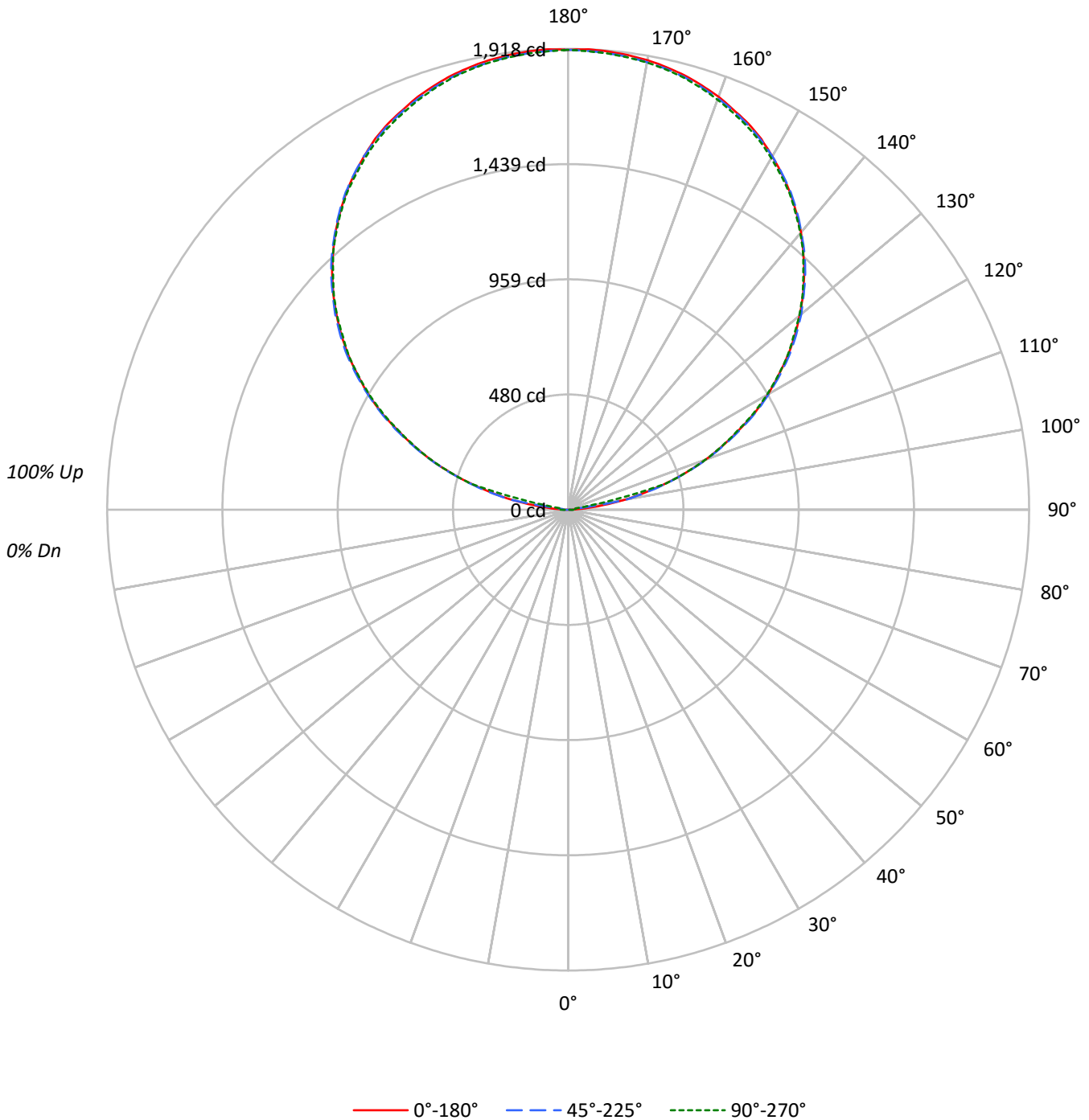
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.8	0.0
90°-100°	65.0	1.1
100°-110°	432.0	7.3
110°-120°	777.9	13.2
120°-130°	998.5	17.0
130°-140°	1073.9	18.3
140°-150°	1007.9	17.1
150°-160°	815.3	13.9
160°-170°	527.3	9.0
170°-180°	181.8	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.0
90°-120°	1274.8	21.7
90°-150°	4355.1	74.0
90°-180°	5880.0	100.0
0°-180°	5882.4	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°	1	13	23	30	34	4
95°	81	77	23	30	30	99
105°	417	423	423	423	421	442
115°	783	790	792	786	778	776
125°	1114	1124	1124	1118	1114	995
135°	1389	1398	1395	1392	1383	1071
145°	1610	1613	1613	1615	1606	1007
155°	1774	1765	1768	1772	1761	817
165°	1872	1863	1864	1873	1862	529
175°	1914	1906	1907	1918	1906	182
180°	1914	1914	1914	1914	1914	



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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°	1.4	12.8	22.7	29.8	34.1
92.5°	27.0	14.2	22.7	29.8	31.2
95°	80.9	76.6	22.7	29.8	29.8
97.5°	151.8	160.3	25.5	28.4	29.8
100°	236.9	241.2	246.9	35.5	29.8
102.5°	323.5	329.2	332.0	334.9	215.7
105°	417.1	422.8	422.8	422.8	421.4
107.5°	513.6	513.6	516.5	517.9	512.2
110°	607.3	607.3	610.1	605.9	607.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	695.2	699.5	700.9	695.2	692.4
115°	783.2	790.3	791.7	786.0	777.5
117.5°	875.4	875.4	881.1	872.6	869.8
120°	960.6	959.1	963.4	960.6	953.5
122.5°	1035.8	1042.9	1044.3	1041.4	1032.9
125°	1113.8	1123.7	1123.7	1118.1	1113.8
127.5°	1189.0	1196.1	1194.7	1191.8	1180.5
130°	1257.1	1264.2	1265.6	1261.4	1254.3
132.5°	1325.2	1333.7	1329.5	1329.5	1322.4
135°	1389.1	1397.6	1394.7	1391.9	1383.4
137.5°	1448.7	1457.2	1454.3	1454.3	1447.2
140°	1506.8	1509.7	1508.2	1511.1	1502.6
142.5°	1559.3	1560.7	1563.6	1563.6	1555.1
145°	1610.4	1613.2	1613.2	1614.7	1606.1
147.5°	1655.8	1655.8	1657.2	1658.6	1648.7
150°	1698.4	1695.5	1698.4	1701.2	1689.9
152.5°	1739.5	1732.4	1735.3	1738.1	1728.2
155°	1773.6	1765.1	1767.9	1772.2	1760.8
157.5°	1800.5	1796.3	1796.3	1800.5	1789.2
160°	1828.9	1820.4	1821.8	1827.5	1816.1
162.5°	1851.6	1843.1	1844.5	1853.0	1840.3
165°	1871.5	1863.0	1864.4	1872.9	1861.5
167.5°	1887.1	1878.6	1880.0	1889.9	1877.2
170°	1899.9	1889.9	1891.3	1902.7	1889.9
172.5°	1908.4	1898.4	1901.3	1911.2	1898.4
175°	1914.0	1905.5	1906.9	1918.3	1905.5
177.5°	1918.3	1909.8	1911.2	1921.1	1909.8
180°	1914.0	1914.0	1914.0	1914.0	1914.0

(END OF REPORT)