

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: P335044

Luminaire Tested: **S125IW-S1560U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335044  
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-S1560U835-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1560 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5411.8 lumens  
Efficiency: N/A  
Efficacy: 176.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

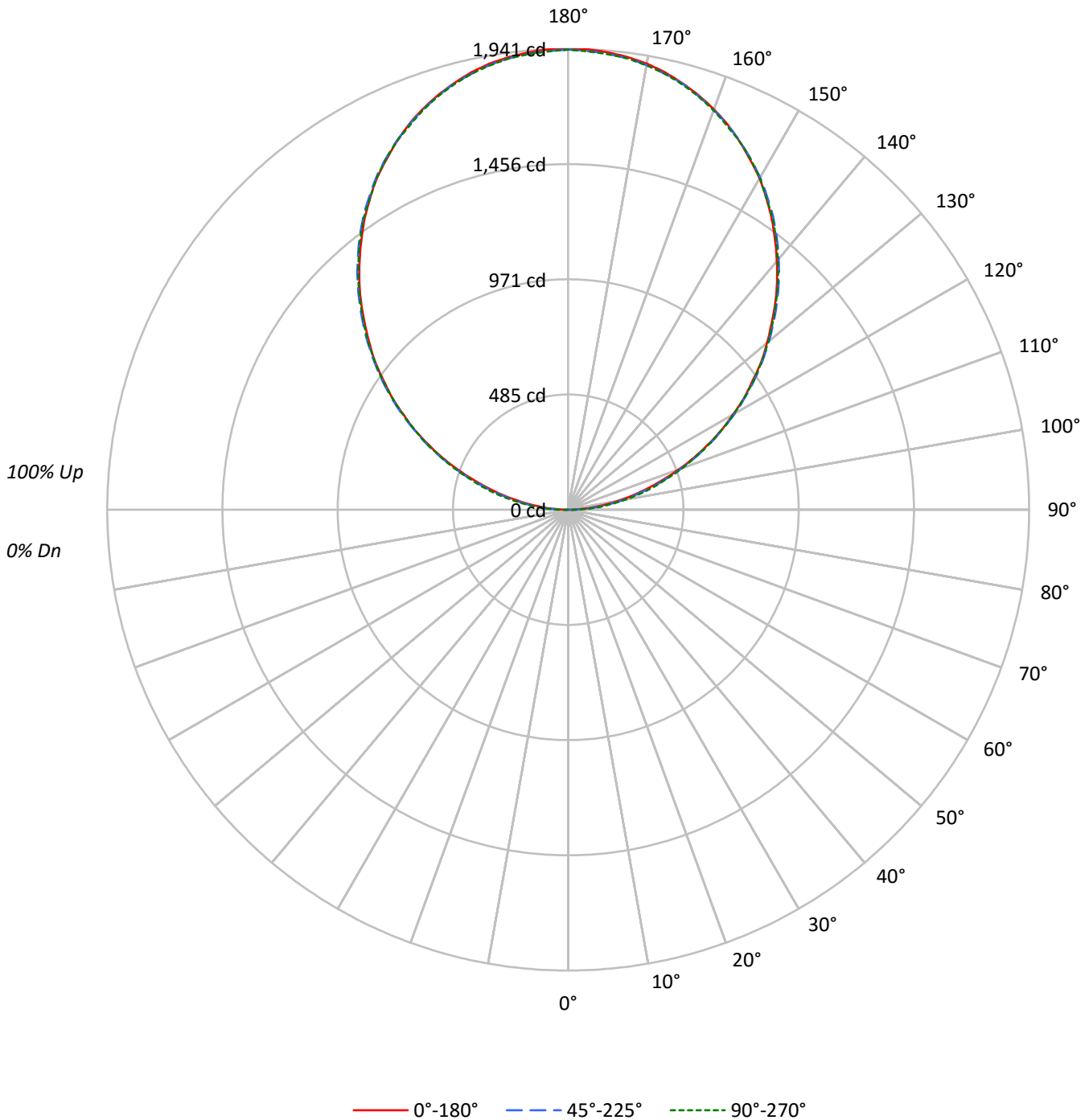
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3.0	0.1
90°-100°	128.9	2.4
100°-110°	382.9	7.1
110°-120°	649.3	12.0
120°-130°	854.8	15.8
130°-140°	957.8	17.7
140°-150°	938.8	17.3
150°-160°	788.6	14.6
160°-170°	524.2	9.7
170°-180°	183.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.1
90°-120°	1161.0	21.5
90°-150°	3912.5	72.3
90°-180°	5409.0	99.9
0°-180°	5411.8	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	36	7
95°	98	101	116	127	130	103
105°	344	351	360	370	374	367
115°	650	656	659	658	656	643
125°	949	958	959	956	955	850
135°	1234	1243	1244	1244	1238	951
145°	1495	1501	1505	1505	1501	934
155°	1710	1710	1712	1718	1710	788
165°	1860	1856	1858	1864	1855	525
175°	1934	1927	1927	1936	1926	184
180°	1938	1938	1938	1938	1938	



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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	13.6	24.1	31.7	36.2
92.5°	45.2	52.8	66.4	76.9	79.9
95°	98.0	101.0	116.1	126.7	129.7
97.5°	150.8	152.3	173.4	182.5	184.0
100°	211.1	211.1	230.7	244.3	247.3
102.5°	276.0	283.5	291.1	306.2	310.7
105°	343.9	351.4	360.5	369.5	374.0
107.5°	417.8	425.3	432.8	437.4	437.4
110°	494.7	502.2	506.7	511.3	509.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	573.1	576.1	582.2	583.7	580.6
115°	650.0	656.1	659.1	657.6	656.1
117.5°	728.4	730.0	733.0	734.5	728.4
120°	800.8	808.4	809.9	809.9	803.9
122.5°	879.3	880.8	885.3	883.8	879.3
125°	948.6	957.7	959.2	956.2	954.7
127.5°	1025.6	1030.1	1031.6	1030.1	1027.1
130°	1093.4	1101.0	1104.0	1102.5	1099.5
132.5°	1161.3	1174.9	1173.4	1171.8	1167.3
135°	1233.7	1242.7	1244.2	1244.2	1238.2
137.5°	1301.5	1310.6	1313.6	1315.1	1307.6
140°	1366.4	1373.9	1378.5	1381.5	1373.9
142.5°	1431.2	1437.3	1443.3	1444.8	1437.3
145°	1494.6	1500.6	1505.1	1505.1	1500.6
147.5°	1553.4	1557.9	1560.9	1565.5	1553.4
150°	1612.2	1610.7	1616.8	1616.8	1613.7
152.5°	1660.5	1663.5	1665.0	1669.5	1663.5
155°	1710.3	1710.3	1711.8	1717.8	1710.3
157.5°	1755.5	1752.5	1754.0	1760.0	1749.5
160°	1794.7	1790.2	1791.7	1797.7	1790.2
162.5°	1829.4	1826.4	1826.4	1833.9	1824.9
165°	1859.6	1856.5	1858.1	1864.1	1855.0
167.5°	1886.7	1880.7	1880.7	1889.7	1880.7
170°	1907.8	1901.8	1901.8	1910.8	1900.3
172.5°	1922.9	1916.9	1916.9	1925.9	1916.9
175°	1933.5	1927.4	1927.4	1936.5	1925.9
177.5°	1941.0	1935.0	1933.5	1942.5	1932.0
180°	1938.0	1938.0	1938.0	1938.0	1938.0

(END OF REPORT)