

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: P335114

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335114  
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-S1560U835-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
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: 6241.0 lumens  
Efficiency: N/A  
Efficacy: 204.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

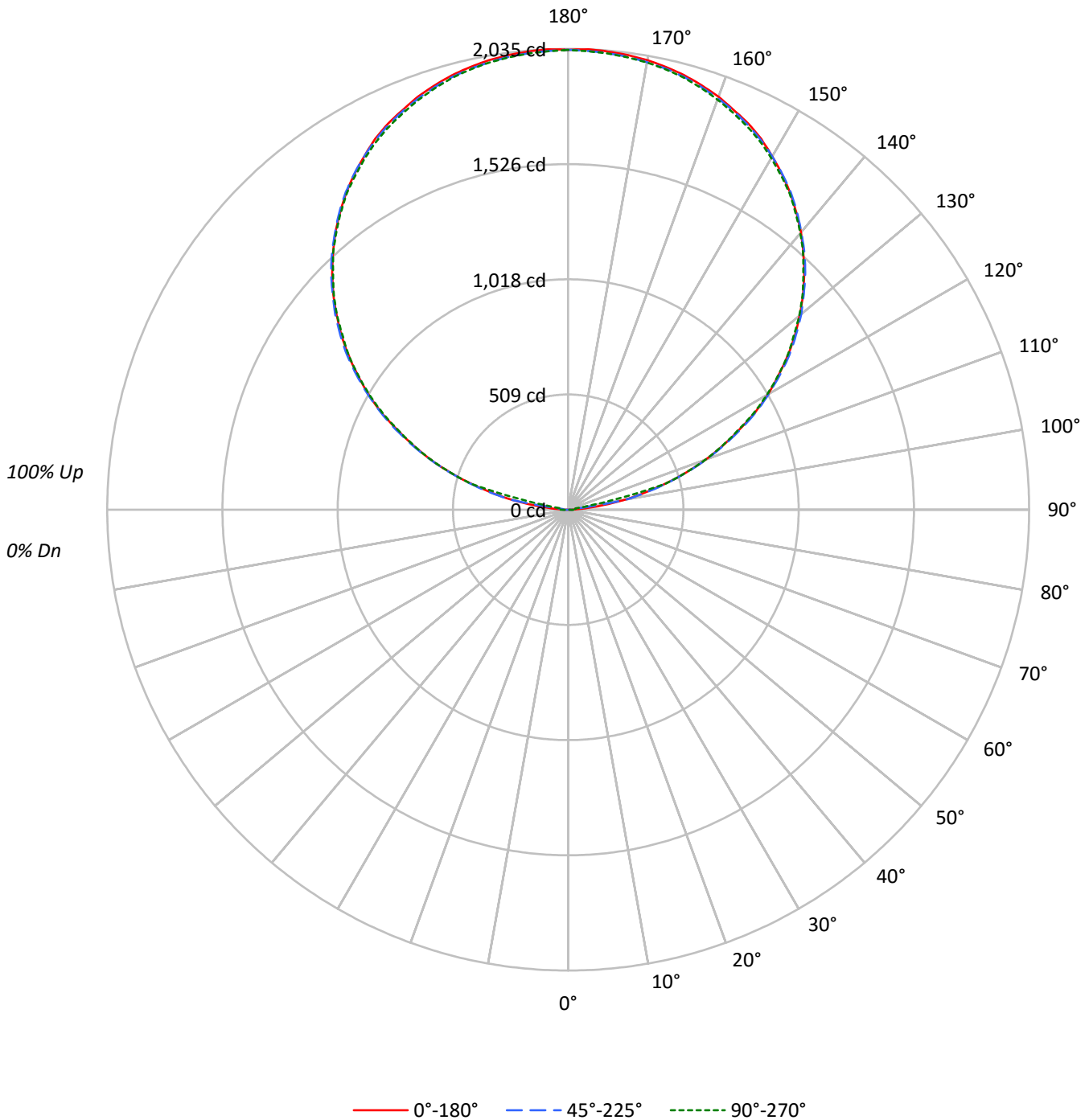
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0.0
90°-100°	68.9	1.1
100°-110°	458.3	7.3
110°-120°	825.3	13.2
120°-130°	1059.3	17.0
130°-140°	1139.4	18.3
140°-150°	1069.4	17.1
150°-160°	865.0	13.9
160°-170°	559.4	9.0
170°-180°	192.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.0
90°-120°	1352.5	21.7
90°-150°	4620.6	74.0
90°-180°	6238.0	100.0
0°-180°	6241.0	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	4
95°	86	81	24	32	32	105
105°	443	449	449	449	447	469
115°	831	838	840	834	825	824
125°	1182	1192	1192	1186	1182	1056
135°	1474	1483	1480	1477	1468	1136
145°	1709	1712	1712	1713	1704	1069
155°	1882	1873	1876	1880	1868	867
165°	1986	1976	1978	1987	1975	561
175°	2031	2022	2023	2035	2022	193
180°	2031	2031	2031	2031	2031	



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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	13.5	24.1	31.6	36.1
92.5°	28.6	15.1	24.1	31.6	33.1
95°	85.8	81.3	24.1	31.6	31.6
97.5°	161.1	170.1	27.1	30.1	31.6
100°	251.4	255.9	261.9	37.6	31.6
102.5°	343.2	349.2	352.3	355.3	228.8
105°	442.6	448.6	448.6	448.6	447.1
107.5°	544.9	544.9	547.9	549.5	543.4
110°	644.3	644.3	647.3	642.8	644.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	737.6	742.1	743.6	737.6	734.6
115°	831.0	838.5	840.0	834.0	824.9
117.5°	928.8	928.8	934.8	925.8	922.8
120°	1019.1	1017.6	1022.1	1019.1	1011.6
122.5°	1098.9	1106.4	1107.9	1104.9	1095.9
125°	1181.7	1192.2	1192.2	1186.2	1181.7
127.5°	1261.5	1269.0	1267.5	1264.5	1252.5
130°	1333.7	1341.3	1342.8	1338.3	1330.7
132.5°	1406.0	1415.0	1410.5	1410.5	1403.0
135°	1473.7	1482.8	1479.8	1476.8	1467.7
137.5°	1537.0	1546.0	1543.0	1543.0	1535.5
140°	1598.7	1601.7	1600.2	1603.2	1594.2
142.5°	1654.4	1655.9	1658.9	1658.9	1649.9
145°	1708.6	1711.6	1711.6	1713.1	1704.1
147.5°	1756.7	1756.7	1758.3	1759.8	1749.2
150°	1801.9	1798.9	1801.9	1804.9	1792.9
152.5°	1845.6	1838.0	1841.0	1844.1	1833.5
155°	1881.7	1872.7	1875.7	1880.2	1868.1
157.5°	1910.3	1905.8	1905.8	1910.3	1898.3
160°	1940.4	1931.4	1932.9	1938.9	1926.9
162.5°	1964.5	1955.5	1957.0	1966.0	1952.4
165°	1985.6	1976.5	1978.0	1987.1	1975.0
167.5°	2002.1	1993.1	1994.6	2005.1	1991.6
170°	2015.7	2005.1	2006.6	2018.7	2005.1
172.5°	2024.7	2014.2	2017.2	2027.7	2014.2
175°	2030.7	2021.7	2023.2	2035.2	2021.7
177.5°	2035.2	2026.2	2027.7	2038.2	2026.2
180°	2030.7	2030.7	2030.7	2030.7	2030.7

(END OF REPORT)