

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: P335119

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335119  
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-S1560U840-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1560 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

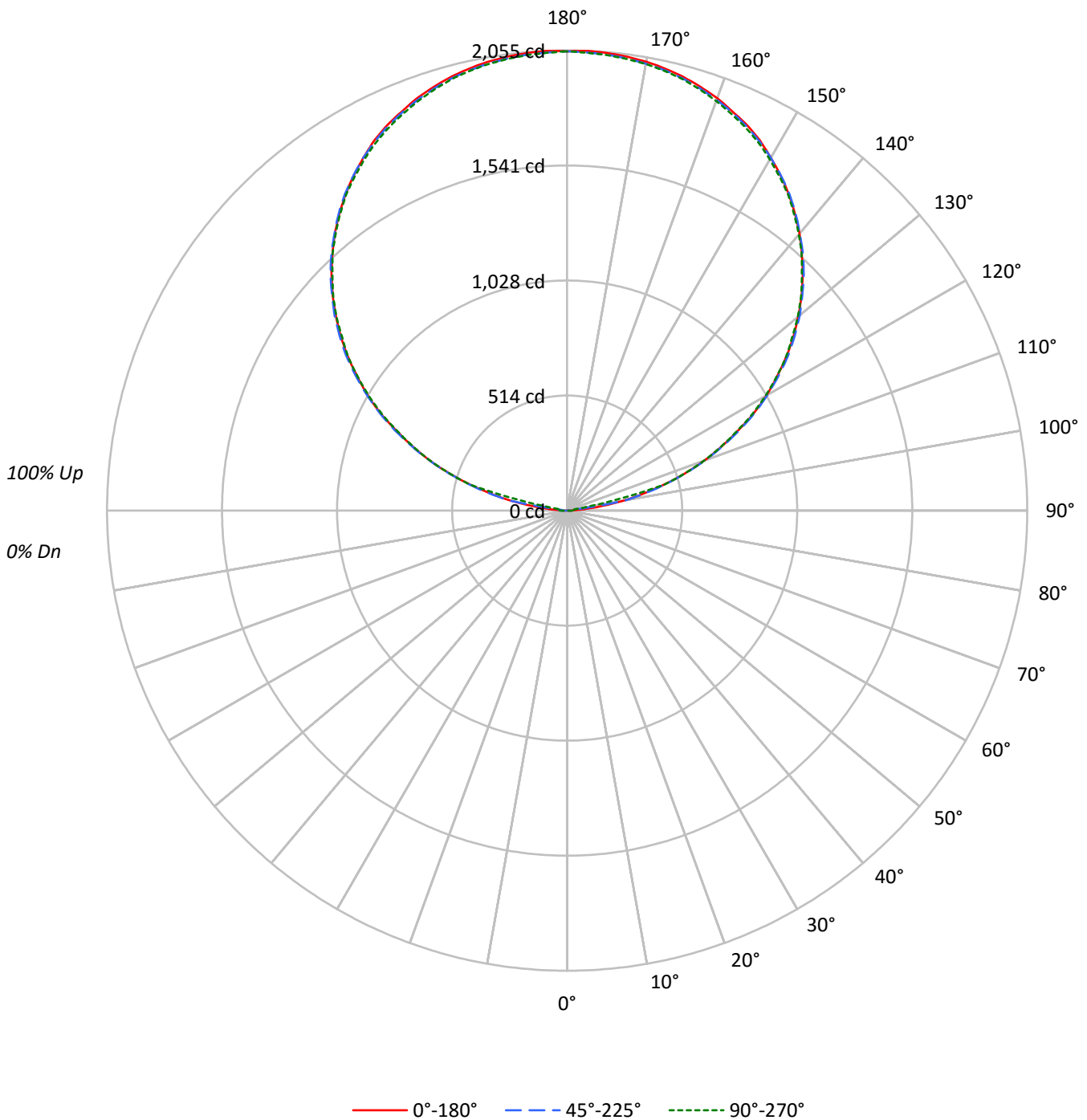
Lumens per Lamp: N/A  
Luminaire Lumens: 6302.5 lumens  
Efficiency: N/A  
Efficacy: 206.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

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



TEST NUMBER: P335119  
CATALOG NUMBER: S125IW-S1560U840-4F0-1E-UDD

### Luminous Intensity Polar Plot





TEST NUMBER: P335119

CATALOG NUMBER: S125IW-S1560U840-4F0-1E-UDD

**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



TEST NUMBER: P335119

CATALOG NUMBER: S125IW-S1560U840-4F0-1E-UDD

**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°	69.6	1.1
100°-110°	462.8	7.3
110°-120°	833.5	13.2
120°-130°	1069.8	17.0
130°-140°	1150.6	18.3
140°-150°	1079.9	17.1
150°-160°	873.5	13.9
160°-170°	564.9	9.0
170°-180°	194.8	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°	1365.9	21.7
90°-150°	4666.2	74.0
90°-180°	6299.0	99.9
0°-180°	6302.5	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°	87	82	24	32	32	106
105°	447	453	453	453	452	473
115°	839	847	848	842	833	832
125°	1193	1204	1204	1198	1193	1066
135°	1488	1497	1494	1491	1482	1147
145°	1725	1728	1728	1730	1721	1079
155°	1900	1891	1894	1899	1887	876
165°	2005	1996	1998	2007	1994	566
175°	2051	2042	2043	2055	2042	195
180°	2051	2051	2051	2051	2051	



TEST NUMBER: P335119

CATALOG NUMBER: S125IW-S1560U840-4F0-1E-UDD

**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	24.3	31.9	36.5
92.5°	28.9	15.2	24.3	31.9	33.4
95°	86.7	82.1	24.3	31.9	31.9
97.5°	162.7	171.8	27.4	30.4	31.9
100°	253.9	258.4	264.5	38.0	31.9
102.5°	346.6	352.7	355.7	358.8	231.1
105°	446.9	453.0	453.0	453.0	451.5
107.5°	550.3	550.3	553.4	554.9	548.8
110°	650.6	650.6	653.7	649.1	650.6



TEST NUMBER: P335119

CATALOG NUMBER: S125IW-S1560U840-4F0-1E-UDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	744.9	749.5	751.0	744.9	741.9
115°	839.2	846.8	848.3	842.2	833.1
117.5°	938.0	938.0	944.0	934.9	931.9
120°	1029.2	1027.7	1032.2	1029.2	1021.6
122.5°	1109.7	1117.3	1118.9	1115.8	1106.7
125°	1193.4	1204.0	1204.0	1197.9	1193.4
127.5°	1273.9	1281.5	1280.0	1277.0	1264.8
130°	1346.9	1354.5	1356.0	1351.5	1343.9
132.5°	1419.9	1429.0	1424.4	1424.4	1416.8
135°	1488.3	1497.4	1494.4	1491.3	1482.2
137.5°	1552.1	1561.2	1558.2	1558.2	1550.6
140°	1614.5	1617.5	1616.0	1619.0	1609.9
142.5°	1670.7	1672.2	1675.3	1675.3	1666.1
145°	1725.4	1728.5	1728.5	1730.0	1720.9
147.5°	1774.1	1774.1	1775.6	1777.1	1766.5
150°	1819.7	1816.6	1819.7	1822.7	1810.6
152.5°	1863.8	1856.2	1859.2	1862.2	1851.6
155°	1900.3	1891.1	1894.2	1898.7	1886.6
157.5°	1929.1	1924.6	1924.6	1929.1	1917.0
160°	1959.5	1950.4	1951.9	1958.0	1945.9
162.5°	1983.9	1974.7	1976.3	1985.4	1971.7
165°	2005.1	1996.0	1997.5	2006.7	1994.5
167.5°	2021.9	2012.7	2014.3	2024.9	2011.2
170°	2035.6	2024.9	2026.4	2038.6	2024.9
172.5°	2044.7	2034.0	2037.1	2047.7	2034.0
175°	2050.8	2041.6	2043.2	2055.3	2041.6
177.5°	2055.3	2046.2	2047.7	2058.4	2046.2
180°	2050.8	2050.8	2050.8	2050.8	2050.8

(END OF REPORT)