

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: P334869

Luminaire Tested: **S124IW-S1560U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IW-S1560U835-4F0-1E-UDD-1
Description: DEFINE 4 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: 5413.7 lumens
Efficiency: N/A
Efficacy: 176.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

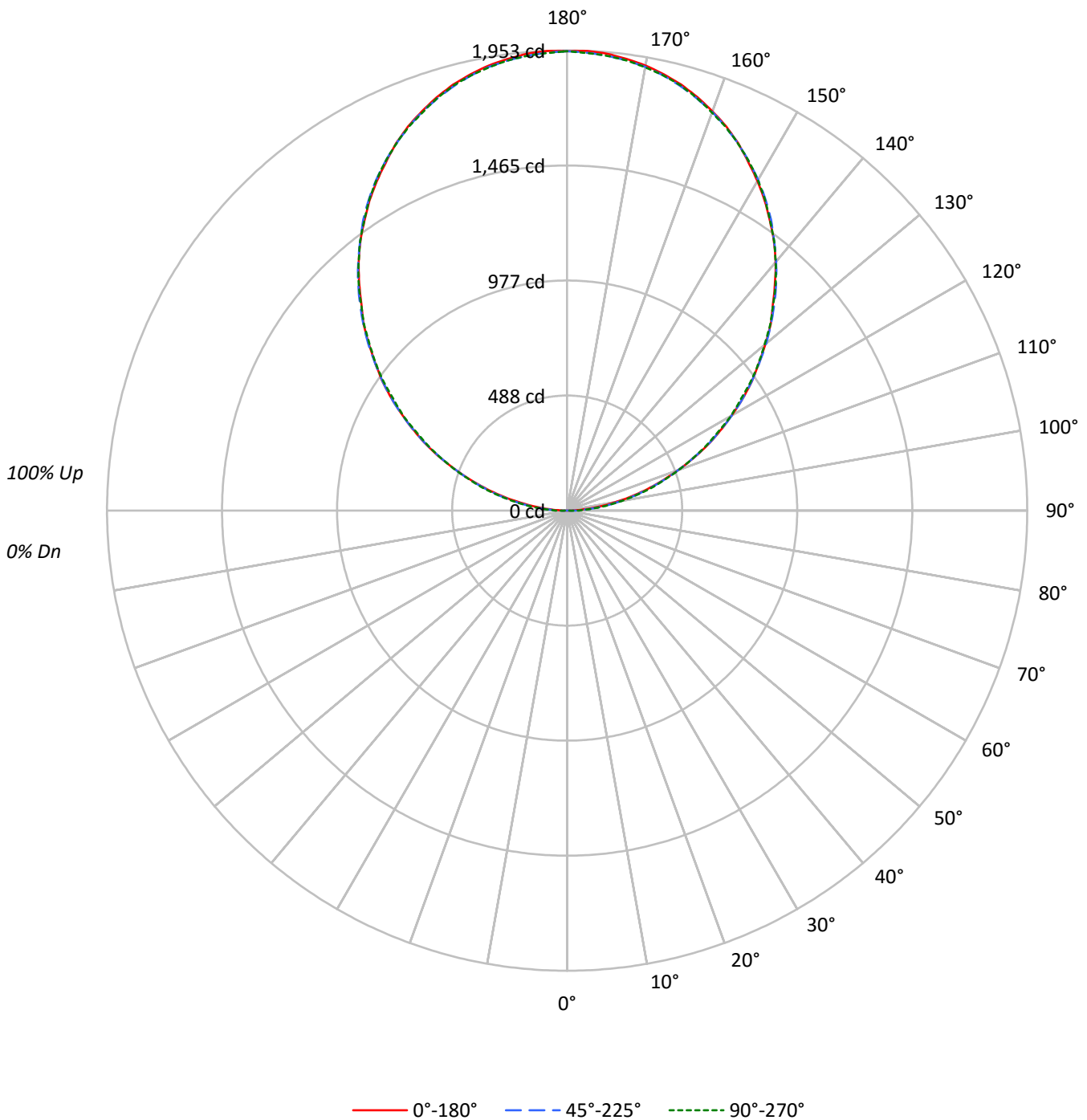
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4.2	0.1
90°-100°	127.1	2.3
100°-110°	380.6	7.0
110°-120°	646.6	11.9
120°-130°	852.8	15.8
130°-140°	957.8	17.7
140°-150°	941.4	17.4
150°-160°	791.8	14.6
160°-170°	526.8	9.7
170°-180°	184.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.2	0.1
90°-120°	1154.4	21.3
90°-150°	3906.4	72.2
90°-180°	5410.0	99.9
0°-180°	5413.7	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°	4	21	33	42	45	7
95°	90	104	115	119	119	98
105°	351	353	359	363	368	373
115°	657	657	654	653	651	648
125°	958	958	956	953	950	853
135°	1235	1244	1244	1241	1236	955
145°	1500	1506	1508	1506	1502	939
155°	1719	1719	1717	1724	1717	791
165°	1871	1867	1864	1873	1867	528
175°	1947	1939	1938	1948	1938	185
180°	1950	1950	1950	1950	1950	



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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°	4.5	21.1	33.2	42.2	45.2
92.5°	39.2	58.8	66.3	70.9	72.4
95°	90.5	104.0	114.6	119.1	119.1
97.5°	144.8	156.8	168.9	174.9	174.9
100°	211.1	217.1	230.7	233.7	233.7
102.5°	280.5	282.0	294.0	298.6	300.1
105°	351.3	352.8	358.9	363.4	367.9
107.5°	425.2	426.7	428.2	434.3	432.7
110°	500.6	503.6	502.1	499.1	503.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	579.0	579.0	576.0	576.0	576.0
115°	657.4	657.4	654.4	652.9	651.4
117.5°	731.3	731.3	729.8	725.3	720.7
120°	805.2	811.2	806.7	799.2	802.2
122.5°	882.1	883.6	882.1	877.6	870.0
125°	957.5	957.5	956.0	953.0	949.9
127.5°	1025.3	1029.9	1026.8	1023.8	1022.3
130°	1097.7	1102.2	1102.2	1099.2	1093.2
132.5°	1171.6	1174.6	1173.1	1170.1	1168.6
135°	1234.9	1244.0	1244.0	1241.0	1236.4
137.5°	1305.8	1310.3	1313.3	1308.8	1310.3
140°	1376.7	1379.7	1379.7	1378.2	1376.7
142.5°	1441.5	1444.5	1443.0	1443.0	1443.0
145°	1500.3	1506.3	1507.8	1506.3	1501.8
147.5°	1560.6	1568.2	1566.6	1565.1	1563.6
150°	1614.9	1620.9	1620.9	1620.9	1619.4
152.5°	1666.2	1669.2	1670.7	1675.2	1670.7
155°	1718.9	1718.9	1717.4	1723.5	1717.4
157.5°	1764.2	1761.2	1761.2	1765.7	1761.2
160°	1803.4	1801.9	1800.4	1804.9	1797.3
162.5°	1839.6	1835.0	1833.5	1842.6	1835.0
165°	1871.2	1866.7	1863.7	1872.7	1866.7
167.5°	1896.9	1890.8	1890.8	1899.9	1890.8
170°	1918.0	1910.4	1911.9	1921.0	1910.4
172.5°	1933.0	1927.0	1927.0	1937.6	1927.0
175°	1946.6	1939.1	1937.6	1948.1	1937.6
177.5°	1952.7	1945.1	1945.1	1955.7	1943.6
180°	1949.6	1949.6	1949.6	1949.6	1949.6

(END OF REPORT)