

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: P334939

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
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
Description: DEFINE 4 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: 6243.1 lumens
Efficiency: N/A
Efficacy: 204.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

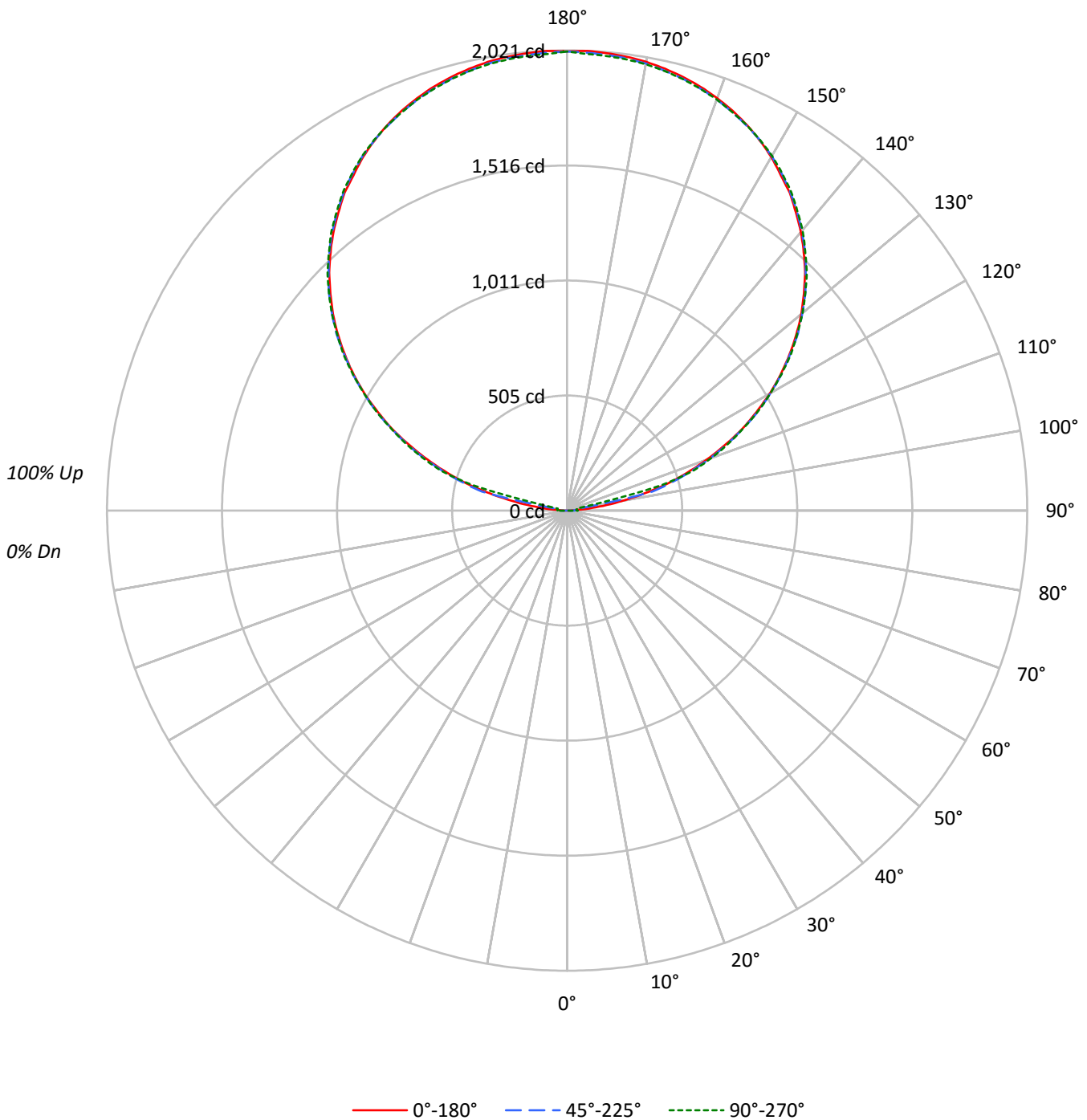
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	66.9	1.1
100°-110°	440.8	7.1
110°-120°	841.6	13.5
120°-130°	1068.5	17.1
130°-140°	1143.0	18.3
140°-150°	1068.8	17.1
150°-160°	861.9	13.8
160°-170°	555.9	8.9
170°-180°	191.6	3.1
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°	1349.3	21.6
90°-150°	4629.6	74.2
90°-180°	6239.0	99.9
0°-180°	6243.1	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	4
95°	83	32	33	42	44	102
105°	454	463	470	484	430	475
115°	848	852	850	854	854	834
125°	1191	1197	1194	1199	1200	1064
135°	1478	1476	1482	1485	1488	1139
145°	1704	1709	1709	1710	1713	1065
155°	1868	1870	1865	1872	1867	862
165°	1971	1964	1964	1976	1962	557
175°	2016	2007	2009	2022	2004	192
180°	2016	2016	2016	2016	2016	



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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°	22.6	19.6	31.7	40.7	40.7
95°	82.9	31.7	33.2	42.2	43.7
97.5°	158.3	191.5	33.2	40.7	42.2
100°	247.3	274.5	66.4	40.7	42.2
102.5°	346.8	364.9	383.0	43.7	43.7
105°	453.9	463.0	470.5	484.1	429.8
107.5°	551.9	556.5	567.0	574.6	580.6
110°	651.5	656.0	665.0	668.1	672.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	748.0	757.0	760.1	758.5	764.6
115°	847.5	852.0	850.5	853.6	853.6
117.5°	936.5	942.5	947.0	945.5	945.5
120°	1027.0	1033.0	1031.5	1034.5	1031.5
122.5°	1111.4	1114.4	1117.5	1119.0	1115.9
125°	1191.4	1197.4	1194.4	1198.9	1200.4
127.5°	1268.3	1269.8	1277.3	1275.8	1274.3
130°	1342.2	1343.7	1348.2	1349.7	1349.7
132.5°	1410.0	1413.0	1419.1	1420.6	1419.1
135°	1477.9	1476.4	1482.4	1485.4	1488.4
137.5°	1538.2	1538.2	1545.7	1548.8	1547.2
140°	1597.0	1600.0	1603.0	1607.6	1609.1
142.5°	1649.8	1655.8	1657.3	1660.4	1660.4
145°	1704.1	1708.6	1708.6	1710.1	1713.1
147.5°	1746.3	1755.4	1753.9	1755.4	1756.9
150°	1793.1	1799.1	1797.6	1797.6	1799.1
152.5°	1832.3	1836.8	1833.8	1836.8	1835.3
155°	1868.5	1870.0	1865.4	1871.5	1867.0
157.5°	1900.1	1900.1	1894.1	1901.6	1894.1
160°	1927.3	1922.8	1921.2	1930.3	1921.2
162.5°	1951.4	1945.4	1943.9	1952.9	1942.4
165°	1971.0	1963.5	1963.5	1975.5	1962.0
167.5°	1987.6	1980.1	1978.5	1992.1	1977.0
170°	2001.2	1992.1	1993.6	2005.7	1990.6
172.5°	2010.2	2001.2	2002.7	2014.7	1998.2
175°	2016.2	2007.2	2008.7	2022.3	2004.2
177.5°	2020.8	2010.2	2013.2	2025.3	2007.2
180°	2016.2	2016.2	2016.2	2016.2	2016.2

(END OF REPORT)