

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: P334934

Luminaire Tested: **S124IW-S1560U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334934
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-S1560U830-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1560 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5884.4 lumens
Efficiency: N/A
Efficacy: 192.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

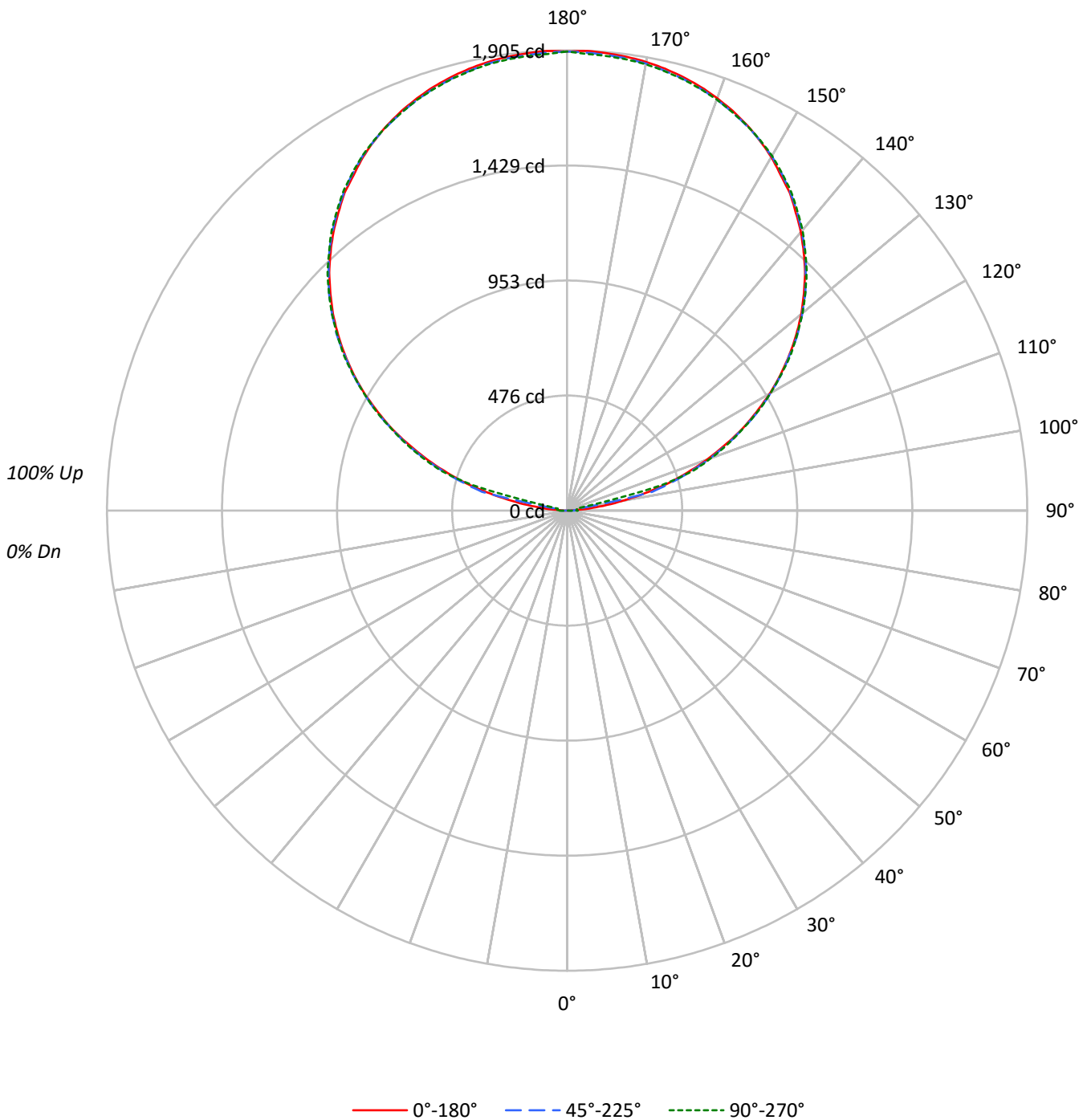
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.9	0.1
90°-100°	63.1	1.1
100°-110°	415.4	7.1
110°-120°	793.3	13.5
120°-130°	1007.1	17.1
130°-140°	1077.3	18.3
140°-150°	1007.4	17.1
150°-160°	812.4	13.8
160°-170°	523.9	8.9
170°-180°	180.6	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.9	0.1
90°-120°	1271.8	21.6
90°-150°	4363.6	74.2
90°-180°	5881.0	99.9
0°-180°	5884.4	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	20	31	40	43	4
95°	78	30	31	40	41	96
105°	428	436	444	456	405	448
115°	799	803	802	804	804	786
125°	1123	1129	1126	1130	1131	1003
135°	1393	1392	1397	1400	1403	1073
145°	1606	1610	1610	1612	1615	1004
155°	1761	1762	1758	1764	1760	812
165°	1858	1851	1851	1862	1849	525
175°	1900	1892	1893	1906	1889	181
180°	1900	1900	1900	1900	1900	



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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°	4.3	19.9	31.3	39.8	42.6
92.5°	21.3	18.5	29.8	38.4	38.4
95°	78.2	29.8	31.3	39.8	41.2
97.5°	149.2	180.5	31.3	38.4	39.8
100°	233.1	258.7	62.5	38.4	39.8
102.5°	326.9	344.0	361.0	41.2	41.2
105°	427.8	436.4	443.5	456.3	405.1
107.5°	520.2	524.5	534.4	541.6	547.2
110°	614.0	618.3	626.8	629.7	633.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	705.0	713.5	716.4	715.0	720.6
115°	798.8	803.1	801.7	804.5	804.5
117.5°	882.7	888.4	892.6	891.2	891.2
120°	968.0	973.7	972.2	975.1	972.2
122.5°	1047.6	1050.4	1053.3	1054.7	1051.8
125°	1122.9	1128.6	1125.7	1130.0	1131.4
127.5°	1195.4	1196.8	1203.9	1202.5	1201.1
130°	1265.0	1266.5	1270.7	1272.1	1272.1
132.5°	1329.0	1331.8	1337.5	1339.0	1337.5
135°	1393.0	1391.5	1397.2	1400.1	1402.9
137.5°	1449.8	1449.8	1456.9	1459.8	1458.3
140°	1505.3	1508.1	1510.9	1515.2	1516.6
142.5°	1555.0	1560.7	1562.1	1565.0	1565.0
145°	1606.2	1610.4	1610.4	1611.9	1614.7
147.5°	1646.0	1654.5	1653.1	1654.5	1655.9
150°	1690.0	1695.7	1694.3	1694.3	1695.7
152.5°	1727.0	1731.3	1728.4	1731.3	1729.8
155°	1761.1	1762.5	1758.3	1763.9	1759.7
157.5°	1791.0	1791.0	1785.3	1792.4	1785.3
160°	1816.5	1812.3	1810.9	1819.4	1810.9
162.5°	1839.3	1833.6	1832.2	1840.7	1830.8
165°	1857.8	1850.7	1850.7	1862.0	1849.2
167.5°	1873.4	1866.3	1864.9	1877.7	1863.4
170°	1886.2	1877.7	1879.1	1890.5	1876.2
172.5°	1894.7	1886.2	1887.6	1899.0	1883.3
175°	1900.4	1891.9	1893.3	1906.1	1889.0
177.5°	1904.7	1894.7	1897.6	1908.9	1891.9
180°	1900.4	1900.4	1900.4	1900.4	1900.4

(END OF REPORT)