

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: P334944

Luminaire Tested: **S124IW-S1560U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334944
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-S1560U840-4F0-1E-UDD
Description: DEFINE 4 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: 6304.7 lumens
Efficiency: N/A
Efficacy: 206.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

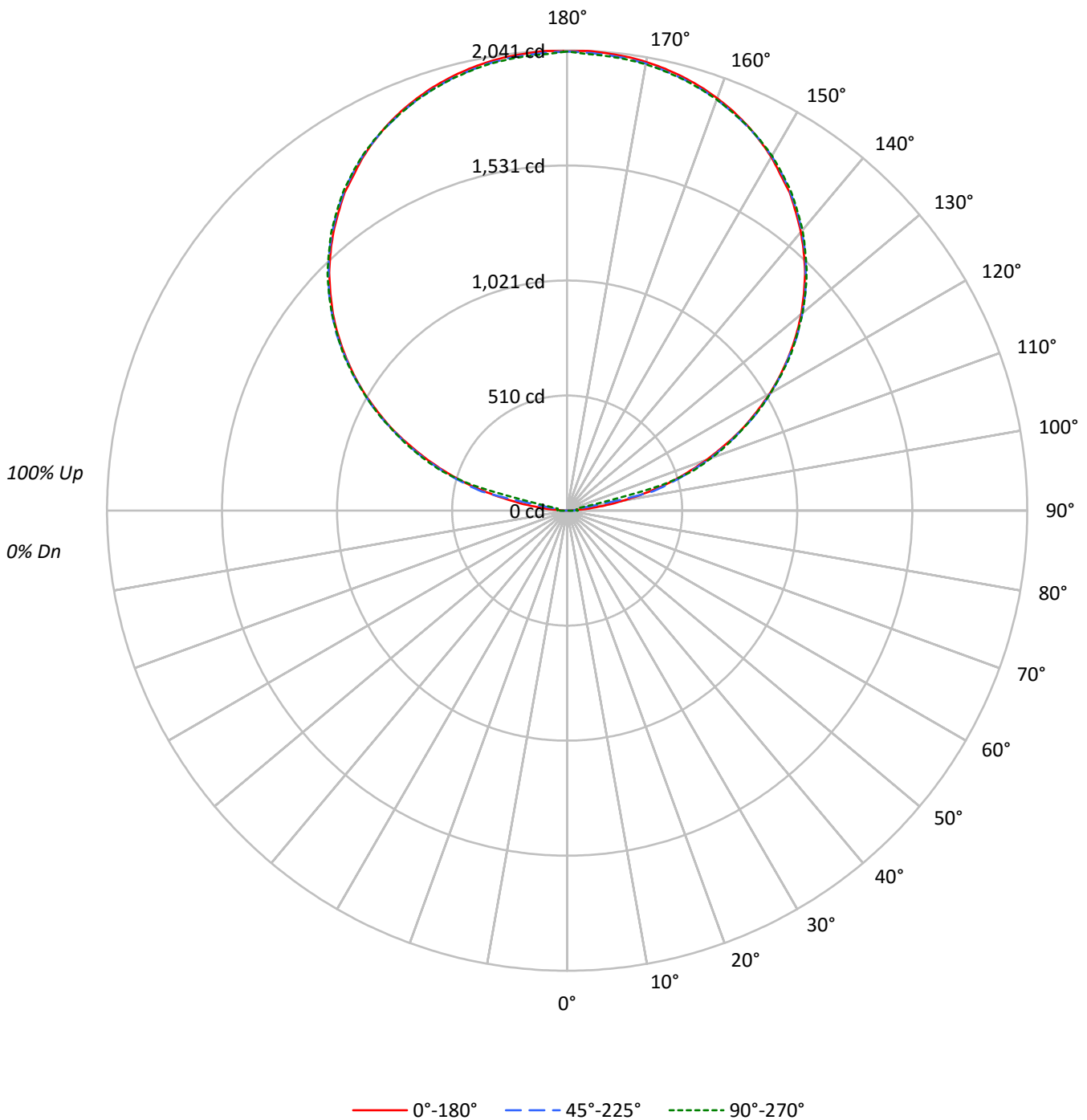
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	67.6	1.1
100°-110°	445.1	7.1
110°-120°	850.0	13.5
120°-130°	1079.0	17.1
130°-140°	1154.3	18.3
140°-150°	1079.4	17.1
150°-160°	870.4	13.8
160°-170°	561.3	8.9
170°-180°	193.5	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°	1362.6	21.6
90°-150°	4675.3	74.2
90°-180°	6301.0	99.9
0°-180°	6304.7	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°	5	21	34	43	46	4
95°	84	32	34	43	44	103
105°	458	468	475	489	434	480
115°	856	860	859	862	862	842
125°	1203	1209	1206	1211	1212	1074
135°	1492	1491	1497	1500	1503	1150
145°	1721	1726	1726	1727	1730	1075
155°	1887	1888	1884	1890	1885	870
165°	1990	1983	1983	1995	1981	562
175°	2036	2027	2028	2042	2024	194
180°	2036	2036	2036	2036	2036	



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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°	4.6	21.3	33.5	42.6	45.7
92.5°	22.8	19.8	32.0	41.1	41.1
95°	83.8	32.0	33.5	42.6	44.2
97.5°	159.9	193.4	33.5	41.1	42.6
100°	249.8	277.2	67.0	41.1	42.6
102.5°	350.3	368.5	386.8	44.2	44.2
105°	458.4	467.5	475.1	488.9	434.0
107.5°	557.4	562.0	572.6	580.2	586.3
110°	657.9	662.5	671.6	674.7	679.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	755.4	764.5	767.5	766.0	772.1
115°	855.9	860.4	858.9	862.0	862.0
117.5°	945.7	951.8	956.4	954.9	954.9
120°	1037.1	1043.2	1041.7	1044.7	1041.7
122.5°	1122.4	1125.4	1128.5	1130.0	1127.0
125°	1203.1	1209.2	1206.1	1210.7	1212.2
127.5°	1280.8	1282.3	1289.9	1288.4	1286.9
130°	1355.4	1356.9	1361.5	1363.0	1363.0
132.5°	1423.9	1427.0	1433.1	1434.6	1433.1
135°	1492.5	1490.9	1497.0	1500.1	1503.1
137.5°	1553.4	1553.4	1561.0	1564.0	1562.5
140°	1612.8	1615.8	1618.9	1623.4	1625.0
142.5°	1666.1	1672.2	1673.7	1676.7	1676.7
145°	1720.9	1725.5	1725.5	1727.0	1730.0
147.5°	1763.5	1772.7	1771.2	1772.7	1774.2
150°	1810.7	1816.8	1815.3	1815.3	1816.8
152.5°	1850.3	1854.9	1851.9	1854.9	1853.4
155°	1886.9	1888.4	1883.8	1889.9	1885.4
157.5°	1918.9	1918.9	1912.8	1920.4	1912.8
160°	1946.3	1941.7	1940.2	1949.3	1940.2
162.5°	1970.7	1964.6	1963.0	1972.2	1961.5
165°	1990.5	1982.8	1982.8	1995.0	1981.3
167.5°	2007.2	1999.6	1998.1	2011.8	1996.5
170°	2020.9	2011.8	2013.3	2025.5	2010.2
172.5°	2030.0	2020.9	2022.4	2034.6	2017.9
175°	2036.1	2027.0	2028.5	2042.2	2024.0
177.5°	2040.7	2030.0	2033.1	2045.3	2027.0
180°	2036.1	2036.1	2036.1	2036.1	2036.1

(END OF REPORT)