

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: P334874

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334874
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-S1560U840-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 5467.1 lumens
Efficiency: N/A
Efficacy: 178.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

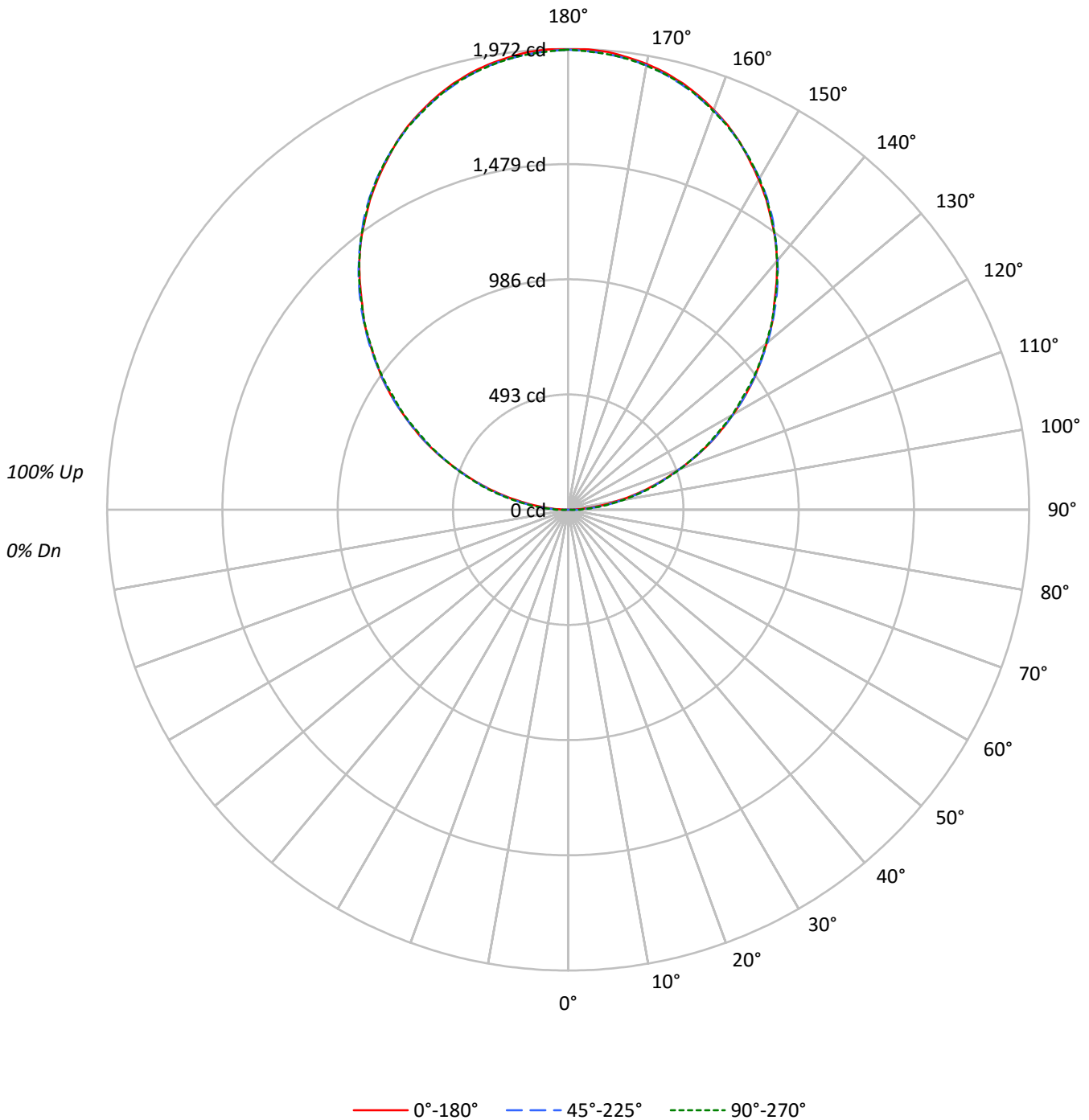
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	128.3	2.3
100°-110°	384.4	7.0
110°-120°	653.0	11.9
120°-130°	861.2	15.8
130°-140°	967.3	17.7
140°-150°	950.7	17.4
150°-160°	799.6	14.6
160°-170°	532.0	9.7
170°-180°	186.3	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°	1165.7	21.3
90°-150°	3944.9	72.2
90°-180°	5463.0	99.9
0°-180°	5467.1	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°	5	21	34	43	46	7
95°	91	105	116	120	120	99
105°	355	356	362	367	372	376
115°	664	664	661	659	658	655
125°	967	967	965	962	959	862
135°	1247	1256	1256	1253	1249	965
145°	1515	1521	1523	1521	1517	948
155°	1736	1736	1734	1740	1734	799
165°	1890	1885	1882	1891	1885	533
175°	1966	1958	1957	1967	1957	187
180°	1969	1969	1969	1969	1969	



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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°	39.6	59.4	67.0	71.6	73.1
95°	91.4	105.1	115.7	120.3	120.3
97.5°	146.2	158.4	170.5	176.6	176.6
100°	213.2	219.3	233.0	236.0	236.0
102.5°	283.2	284.7	296.9	301.5	303.0
105°	354.8	356.3	362.4	367.0	371.5
107.5°	429.4	430.9	432.5	438.5	437.0
110°	505.5	508.6	507.1	504.0	508.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	584.7	584.7	581.7	581.7	581.7
115°	663.9	663.9	660.9	659.3	657.8
117.5°	738.5	738.5	737.0	732.4	727.9
120°	813.1	819.2	814.7	807.0	810.1
122.5°	890.8	892.3	890.8	886.2	878.6
125°	966.9	966.9	965.4	962.4	959.3
127.5°	1035.4	1040.0	1037.0	1033.9	1032.4
130°	1108.5	1113.1	1113.1	1110.1	1104.0
132.5°	1183.1	1186.2	1184.7	1181.6	1180.1
135°	1247.1	1256.2	1256.2	1253.2	1248.6
137.5°	1318.7	1323.2	1326.3	1321.7	1323.2
140°	1390.2	1393.3	1393.3	1391.8	1390.2
142.5°	1455.7	1458.8	1457.2	1457.2	1457.2
145°	1515.1	1521.2	1522.7	1521.2	1516.6
147.5°	1576.0	1583.6	1582.1	1580.6	1579.1
150°	1630.8	1636.9	1636.9	1636.9	1635.4
152.5°	1682.6	1685.6	1687.2	1691.7	1687.2
155°	1735.9	1735.9	1734.4	1740.5	1734.4
157.5°	1781.6	1778.5	1778.5	1783.1	1778.5
160°	1821.2	1819.6	1818.1	1822.7	1815.1
162.5°	1857.7	1853.1	1851.6	1860.8	1853.1
165°	1889.7	1885.1	1882.1	1891.2	1885.1
167.5°	1915.6	1909.5	1909.5	1918.6	1909.5
170°	1936.9	1929.3	1930.8	1939.9	1929.3
172.5°	1952.1	1946.0	1946.0	1956.7	1946.0
175°	1965.8	1958.2	1956.7	1967.3	1956.7
177.5°	1971.9	1964.3	1964.3	1975.0	1962.8
180°	1968.9	1968.9	1968.9	1968.9	1968.9

(END OF REPORT)