

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: P334964

Luminaire Tested: **S124IW-S1560U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334964
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-S1560U940-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1560 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5567.1 lumens
Efficiency: N/A
Efficacy: 181.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

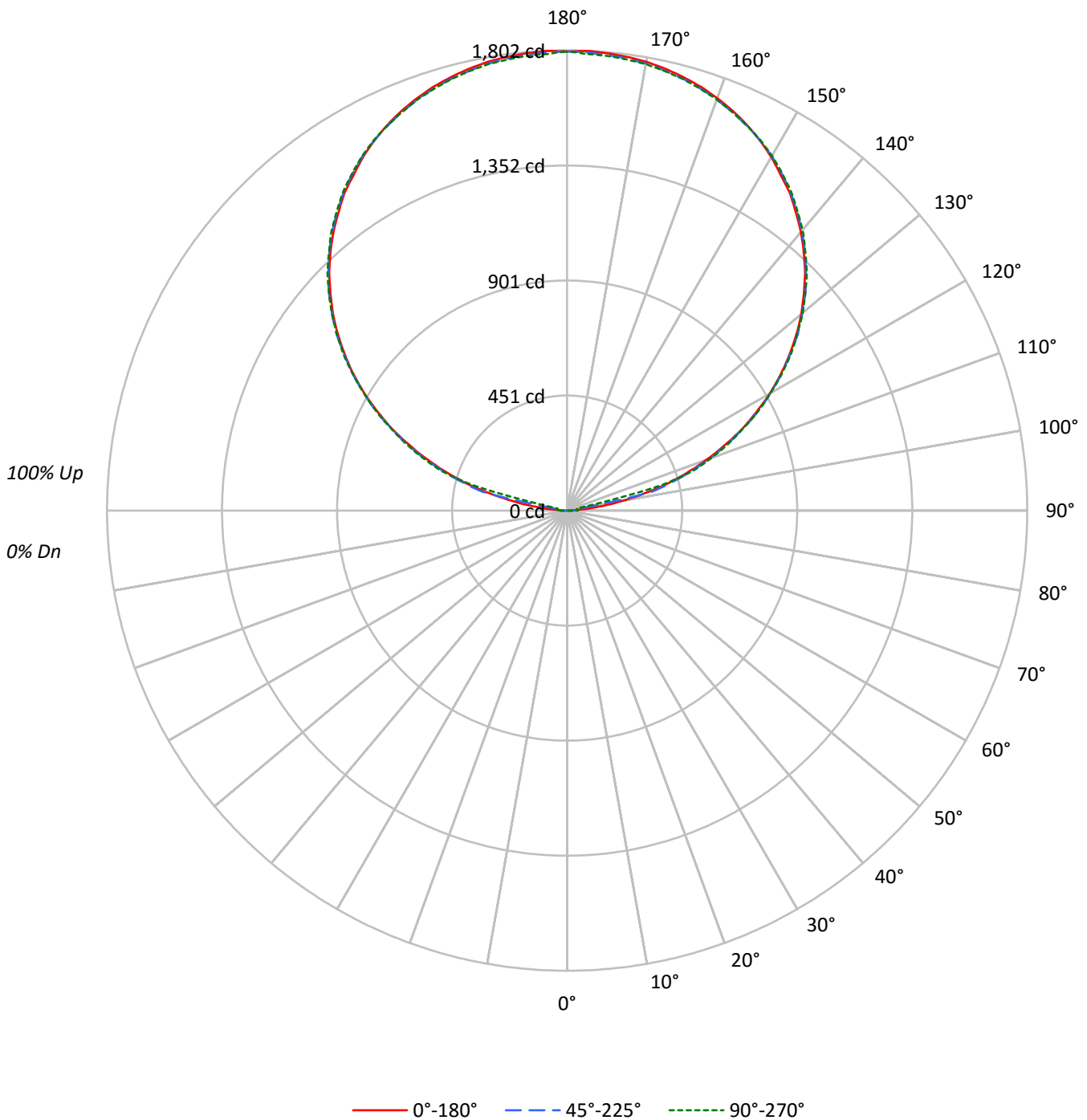
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.7	0.1
90°-100°	59.7	1.1
100°-110°	393.0	7.1
110°-120°	750.5	13.5
120°-130°	952.8	17.1
130°-140°	1019.2	18.3
140°-150°	953.1	17.1
150°-160°	768.6	13.8
160°-170°	495.7	8.9
170°-180°	170.8	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.7	0.1
90°-120°	1203.2	21.6
90°-150°	4128.3	74.2
90°-180°	5563.0	99.9
0°-180°	5567.1	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	19	30	38	40	4
95°	74	28	30	38	39	91
105°	405	413	420	432	383	424
115°	756	760	758	761	761	744
125°	1062	1068	1065	1069	1070	949
135°	1318	1316	1322	1325	1327	1015
145°	1520	1524	1524	1525	1528	950
155°	1666	1668	1663	1669	1665	768
165°	1758	1751	1751	1762	1750	497
175°	1798	1790	1791	1803	1787	171
180°	1798	1798	1798	1798	1798	



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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°	4.0	18.8	29.6	37.7	40.3
92.5°	20.2	17.5	28.2	36.3	36.3
95°	74.0	28.2	29.6	37.7	39.0
97.5°	141.2	170.8	29.6	36.3	37.7
100°	220.5	244.7	59.2	36.3	37.7
102.5°	309.3	325.4	341.6	39.0	39.0
105°	404.8	412.8	419.6	431.7	383.2
107.5°	492.2	496.2	505.6	512.3	517.7
110°	580.9	585.0	593.0	595.7	599.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	667.0	675.1	677.7	676.4	681.8
115°	755.7	759.8	758.4	761.1	761.1
117.5°	835.1	840.5	844.5	843.1	843.1
120°	915.8	921.1	919.8	922.5	919.8
122.5°	991.1	993.8	996.4	997.8	995.1
125°	1062.3	1067.7	1065.0	1069.1	1070.4
127.5°	1130.9	1132.3	1139.0	1137.6	1136.3
130°	1196.8	1198.2	1202.2	1203.5	1203.5
132.5°	1257.3	1260.0	1265.4	1266.7	1265.4
135°	1317.8	1316.5	1321.9	1324.6	1327.3
137.5°	1371.6	1371.6	1378.4	1381.0	1379.7
140°	1424.1	1426.8	1429.5	1433.5	1434.8
142.5°	1471.1	1476.5	1477.9	1480.6	1480.6
145°	1519.6	1523.6	1523.6	1524.9	1527.6
147.5°	1557.2	1565.3	1563.9	1565.3	1566.6
150°	1598.9	1604.3	1602.9	1602.9	1604.3
152.5°	1633.9	1637.9	1635.2	1637.9	1636.5
155°	1666.1	1667.5	1663.4	1668.8	1664.8
157.5°	1694.4	1694.4	1689.0	1695.7	1689.0
160°	1718.6	1714.5	1713.2	1721.3	1713.2
162.5°	1740.1	1734.7	1733.4	1741.4	1732.0
165°	1757.6	1750.8	1750.8	1761.6	1749.5
167.5°	1772.4	1765.6	1764.3	1776.4	1762.9
170°	1784.5	1776.4	1777.7	1788.5	1775.1
172.5°	1792.5	1784.5	1785.8	1796.6	1781.8
175°	1797.9	1789.8	1791.2	1803.3	1787.2
177.5°	1801.9	1792.5	1795.2	1806.0	1789.8
180°	1797.9	1797.9	1797.9	1797.9	1797.9

(END OF REPORT)