

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: P335139

Luminaire Tested: **S125IW-S1560U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IW-S1560U940-4F0-1E-UDD
Description: DEFINE 5 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: 5565.1 lumens
Efficiency: N/A
Efficacy: 181.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

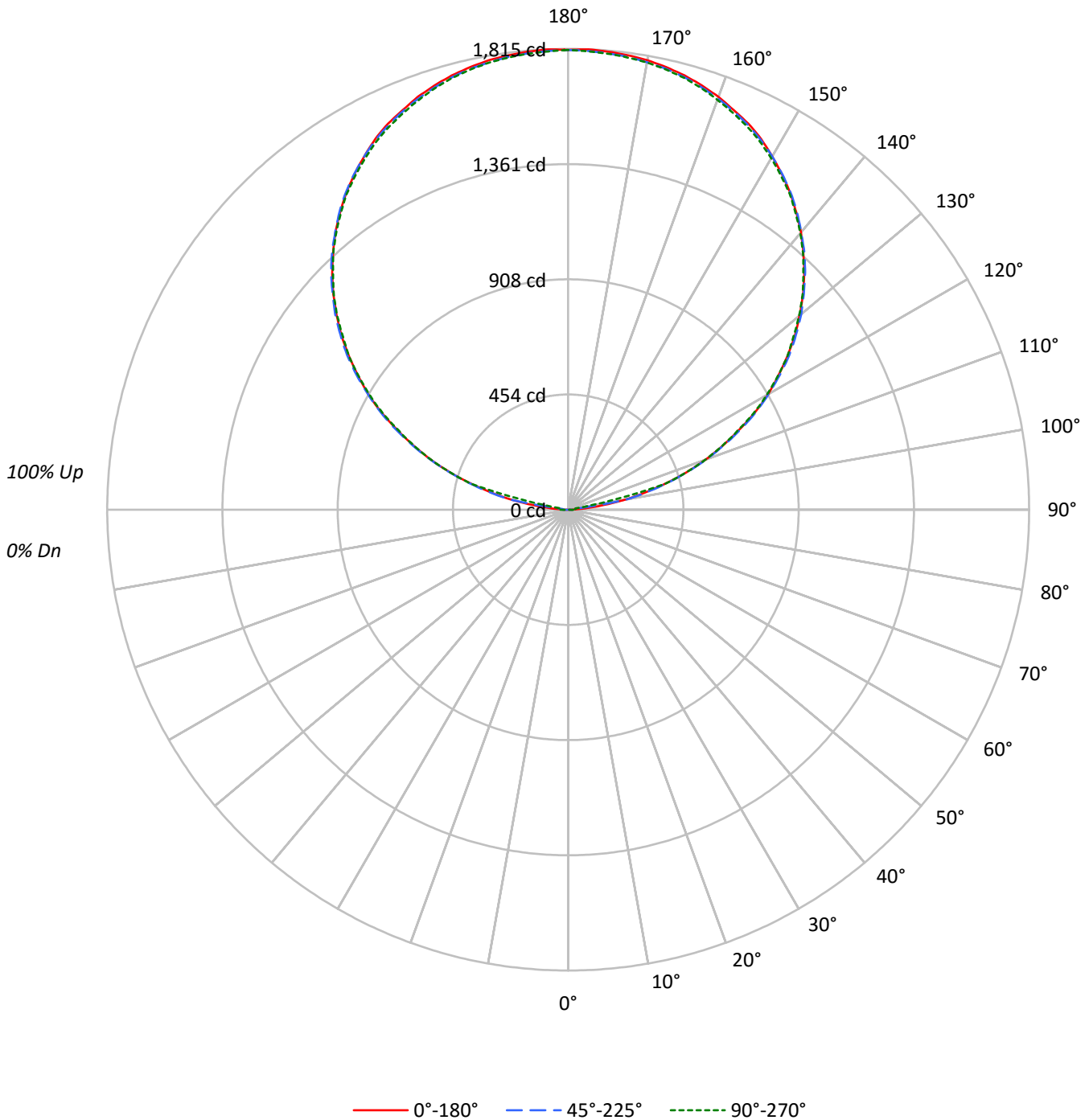
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.7	0.0
90°-100°	61.5	1.1
100°-110°	408.7	7.3
110°-120°	735.9	13.2
120°-130°	944.6	17.0
130°-140°	1016.0	18.3
140°-150°	953.6	17.1
150°-160°	771.3	13.9
160°-170°	498.8	9.0
170°-180°	172.0	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.0
90°-120°	1206.1	21.7
90°-150°	4120.3	74.0
90°-180°	5562.0	99.9
0°-180°	5565.1	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°	1	12	22	28	32	4
95°	76	72	22	28	28	94
105°	395	400	400	400	399	418
115°	741	748	749	744	736	735
125°	1054	1063	1063	1058	1054	941
135°	1314	1322	1320	1317	1309	1013
145°	1524	1526	1526	1528	1520	953
155°	1678	1670	1673	1677	1666	773
165°	1770	1762	1764	1772	1761	500
175°	1811	1803	1804	1815	1803	172
180°	1811	1811	1811	1811	1811	



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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°	1.3	12.1	21.5	28.2	32.2
92.5°	25.5	13.4	21.5	28.2	29.5
95°	76.5	72.5	21.5	28.2	28.2
97.5°	143.6	151.7	24.2	26.8	28.2
100°	224.2	228.2	233.6	33.6	28.2
102.5°	306.1	311.4	314.1	316.8	204.0
105°	394.6	400.0	400.0	400.0	398.7
107.5°	485.9	485.9	488.6	490.0	484.6
110°	574.5	574.5	577.2	573.2	574.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	657.7	661.8	663.1	657.7	655.1
115°	741.0	747.7	749.0	743.7	735.6
117.5°	828.2	828.2	833.6	825.5	822.9
120°	908.8	907.4	911.4	908.8	902.1
122.5°	979.9	986.6	988.0	985.3	977.2
125°	1053.7	1063.1	1063.1	1057.8	1053.7
127.5°	1124.9	1131.6	1130.3	1127.6	1116.8
130°	1189.3	1196.0	1197.4	1193.3	1186.6
132.5°	1253.7	1261.8	1257.8	1257.8	1251.1
135°	1314.2	1322.2	1319.5	1316.8	1308.8
137.5°	1370.5	1378.6	1375.9	1375.9	1369.2
140°	1425.6	1428.2	1426.9	1429.6	1421.5
142.5°	1475.2	1476.6	1479.3	1479.3	1471.2
145°	1523.6	1526.2	1526.2	1527.6	1519.5
147.5°	1566.5	1566.5	1567.9	1569.2	1559.8
150°	1606.8	1604.1	1606.8	1609.5	1598.7
152.5°	1645.7	1639.0	1641.7	1644.4	1635.0
155°	1677.9	1669.9	1672.6	1676.6	1665.8
157.5°	1703.4	1699.4	1699.4	1703.4	1692.7
160°	1730.3	1722.2	1723.6	1728.9	1718.2
162.5°	1751.8	1743.7	1745.0	1753.1	1741.0
165°	1770.5	1762.5	1763.8	1771.9	1761.1
167.5°	1785.3	1777.3	1778.6	1788.0	1775.9
170°	1797.4	1788.0	1789.3	1800.1	1788.0
172.5°	1805.4	1796.1	1798.7	1808.1	1796.1
175°	1810.8	1802.8	1804.1	1814.8	1802.8
177.5°	1814.8	1806.8	1808.1	1817.5	1806.8
180°	1810.8	1810.8	1810.8	1810.8	1810.8

(END OF REPORT)