

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: P334519

Luminaire Tested: **S122IW-S1440U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IW-S1440U835-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1440 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

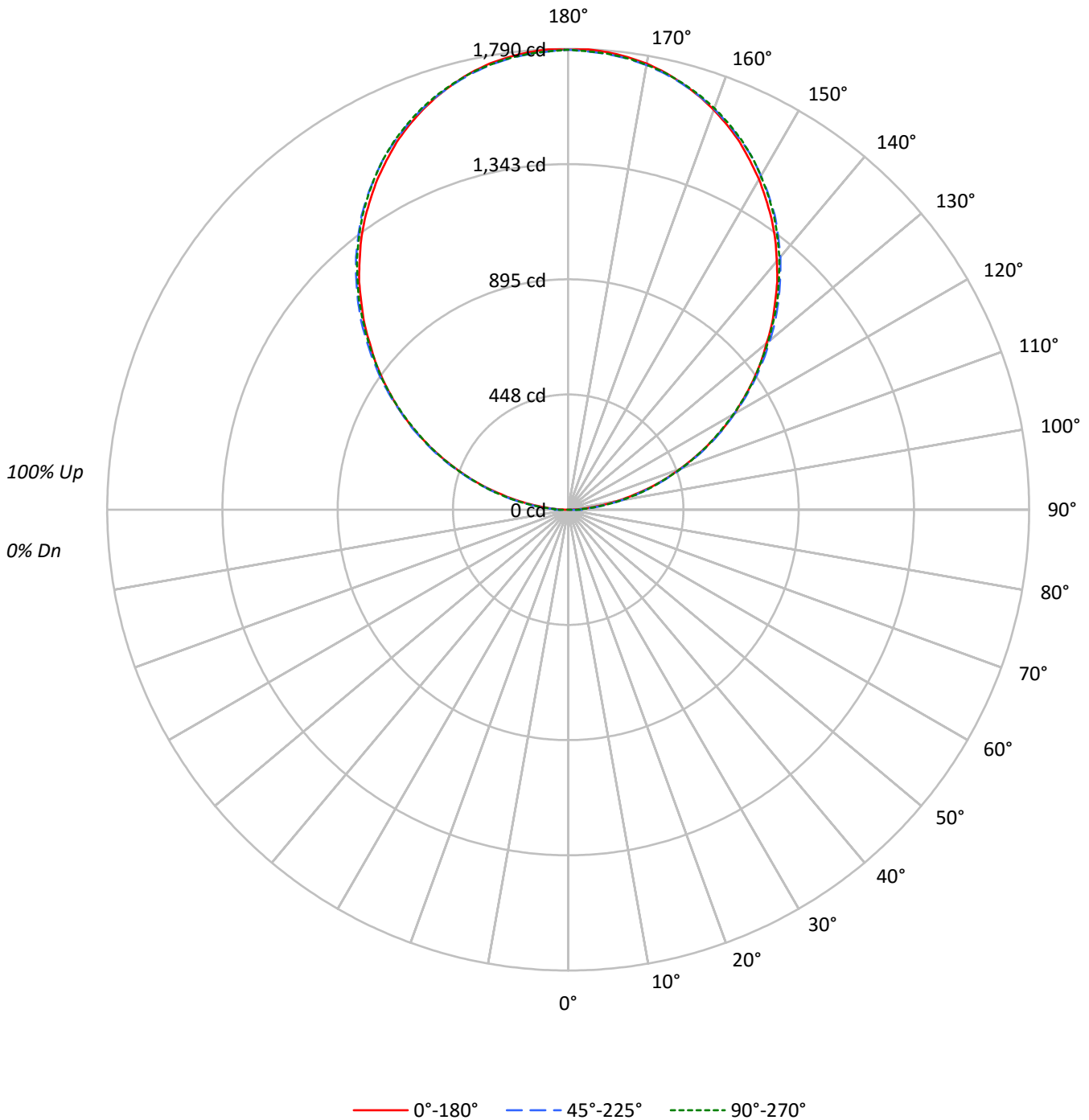
Lumens per Lamp: N/A
Luminaire Lumens: 4999.7 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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°	5.1	0.1
90°-100°	110.5	2.2
100°-110°	351.3	7.0
110°-120°	601.2	12.0
120°-130°	790.6	15.8
130°-140°	887.4	17.7
140°-150°	870.3	17.4
150°-160°	730.0	14.6
160°-170°	484.1	9.7
170°-180°	169.2	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	5.1	0.1
90°-120°	1063.0	21.3
90°-150°	3611.3	72.2
90°-180°	4995.0	99.9
0°-180°	4999.7	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°	2	20	53	50	51	5
95°	78	94	96	96	94	88
105°	324	329	332	335	335	342
115°	603	612	609	608	603	597
125°	877	891	886	882	880	784
135°	1135	1152	1155	1153	1149	877
145°	1378	1388	1398	1399	1393	861
155°	1575	1580	1584	1592	1588	725
165°	1714	1713	1713	1723	1716	484
175°	1783	1779	1776	1786	1777	169
180°	1786	1786	1786	1786	1786	



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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°	1.5	19.6	52.8	49.7	51.3
92.5°	33.2	45.2	46.7	48.2	48.2
95°	78.4	93.5	96.5	96.5	93.5
97.5°	131.2	144.7	150.8	150.8	150.8
100°	191.5	203.5	208.0	208.0	206.5
102.5°	254.8	263.8	269.9	271.4	269.9
105°	324.1	328.6	331.7	334.7	334.7
107.5°	393.5	399.5	399.5	401.0	393.5
110°	459.8	468.9	468.9	468.9	464.3



TEST NUMBER: P334519

CATALOG NUMBER: S122IW-S1440U835-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	532.2	541.2	539.7	535.2	532.2
115°	603.0	612.1	609.1	607.5	603.0
117.5°	673.9	685.9	678.4	673.9	669.4
120°	744.7	756.8	744.7	744.7	740.2
122.5°	809.6	824.6	817.1	812.6	809.6
125°	877.4	891.0	886.4	881.9	880.4
127.5°	943.7	960.3	954.3	948.3	943.7
130°	1005.5	1025.1	1022.1	1019.1	1013.1
132.5°	1074.9	1090.0	1091.5	1083.9	1079.4
135°	1135.2	1151.8	1154.8	1153.3	1148.8
137.5°	1201.5	1215.1	1218.1	1216.6	1210.6
140°	1260.3	1273.9	1281.4	1281.4	1275.4
142.5°	1320.6	1334.2	1338.7	1340.2	1334.2
145°	1377.9	1388.5	1397.5	1399.0	1393.0
147.5°	1429.2	1442.7	1448.8	1451.8	1445.8
150°	1481.9	1491.0	1497.0	1501.5	1497.0
152.5°	1528.7	1537.7	1545.2	1551.3	1545.2
155°	1575.4	1579.9	1584.4	1592.0	1587.5
157.5°	1616.1	1619.1	1622.1	1632.7	1625.1
160°	1652.3	1655.3	1656.8	1665.9	1659.8
162.5°	1685.5	1685.5	1687.0	1697.5	1690.0
165°	1714.1	1712.6	1712.6	1723.1	1715.6
167.5°	1739.7	1735.2	1735.2	1745.8	1738.2
170°	1759.3	1754.8	1753.3	1763.8	1754.8
172.5°	1772.9	1768.4	1766.9	1777.4	1768.4
175°	1783.4	1778.9	1775.9	1786.5	1777.4
177.5°	1789.5	1785.0	1781.9	1791.0	1781.9
180°	1786.5	1786.5	1786.5	1786.5	1786.5

(END OF REPORT)