

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: P334714

Luminaire Tested: **S123IW-S1535U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IW-S1535U935-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1535 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4583.1 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

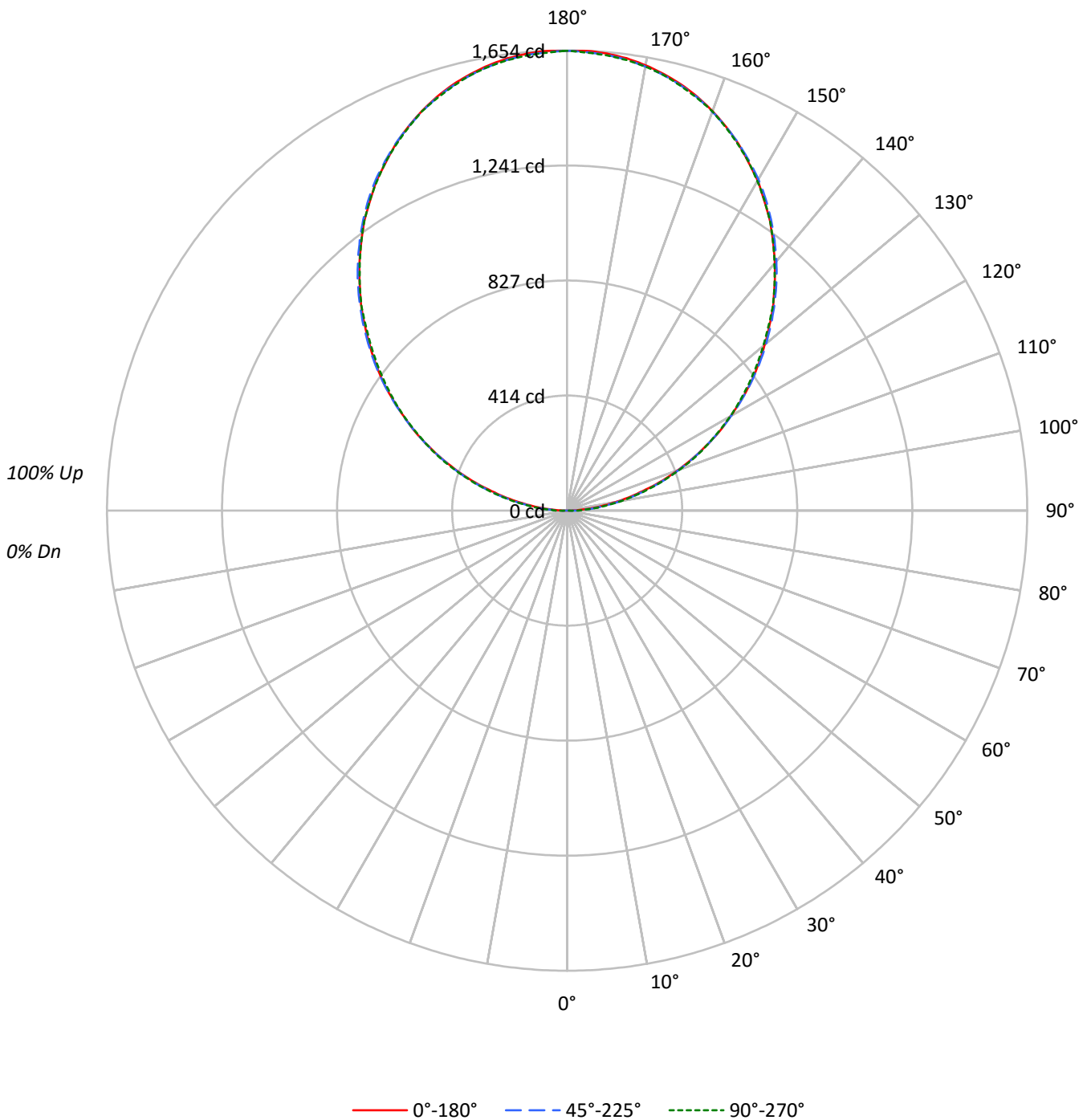
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.5	0.1
90°-100°	106.4	2.3
100°-110°	322.0	7.0
110°-120°	548.2	12.0
120°-130°	721.2	15.7
130°-140°	810.7	17.7
140°-150°	797.0	17.4
150°-160°	671.0	14.6
160°-170°	446.7	9.7
170°-180°	156.4	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.5	0.1
90°-120°	976.6	21.3
90°-150°	3305.5	72.1
90°-180°	4580.0	99.9
0°-180°	4583.1	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	14	31	36	39	6
95°	77	86	96	101	101	84
105°	292	295	306	306	309	313
115°	552	556	553	554	553	546
125°	808	812	809	804	798	720
135°	1048	1056	1054	1049	1046	807
145°	1271	1274	1278	1276	1271	794
155°	1455	1455	1457	1462	1453	670
165°	1585	1581	1581	1589	1580	447
175°	1649	1644	1644	1652	1642	157
180°	1653	1653	1653	1653	1653	



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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	14.3	31.2	36.4	39.0
92.5°	39.0	46.7	54.5	58.4	55.8
95°	76.6	85.7	96.1	101.3	101.3
97.5°	125.9	132.4	140.2	146.7	145.4
100°	176.6	184.4	190.9	194.8	197.3
102.5°	235.0	238.9	248.0	251.9	250.6
105°	292.1	294.7	306.4	306.4	309.0
107.5°	359.6	360.9	366.1	370.0	368.7
110°	422.0	424.6	427.2	432.3	429.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.9	488.2	488.2	494.7	494.7
115°	551.8	555.7	553.1	554.4	553.1
117.5°	618.0	619.3	616.7	616.7	612.8
120°	679.0	686.8	680.3	679.0	676.4
122.5°	742.7	747.8	745.2	741.4	737.5
125°	807.6	811.5	808.9	803.7	798.5
127.5°	867.3	875.1	872.5	864.7	859.5
130°	927.0	937.4	933.5	928.3	919.2
132.5°	986.7	997.1	994.5	988.0	981.5
135°	1047.8	1055.6	1054.3	1049.1	1046.5
137.5°	1103.6	1110.1	1114.0	1107.5	1103.6
140°	1162.0	1168.5	1169.8	1168.5	1159.4
142.5°	1215.2	1221.7	1224.3	1223.0	1216.5
145°	1271.1	1273.7	1277.6	1276.3	1271.1
147.5°	1319.1	1324.3	1328.2	1328.2	1320.4
150°	1369.8	1372.3	1374.9	1374.9	1367.2
152.5°	1411.3	1415.2	1416.5	1419.1	1412.6
155°	1455.4	1455.4	1456.7	1461.9	1452.8
157.5°	1493.1	1491.8	1493.1	1498.3	1490.5
160°	1528.1	1525.6	1525.6	1532.0	1526.9
162.5°	1559.3	1555.4	1556.7	1563.2	1554.1
165°	1585.3	1581.4	1581.4	1589.2	1580.1
167.5°	1607.3	1602.2	1603.5	1611.2	1603.5
170°	1625.5	1620.3	1620.3	1629.4	1620.3
172.5°	1639.8	1634.6	1634.6	1642.4	1633.3
175°	1648.9	1643.7	1643.7	1651.5	1642.4
177.5°	1654.1	1648.9	1648.9	1656.7	1647.6
180°	1652.8	1652.8	1652.8	1652.8	1652.8

(END OF REPORT)