

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: P334779

Luminaire Tested: **S123IW-S1535U930-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IW-S1535U930-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1535 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5004.7 lumens
Efficiency: N/A
Efficacy: 163.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

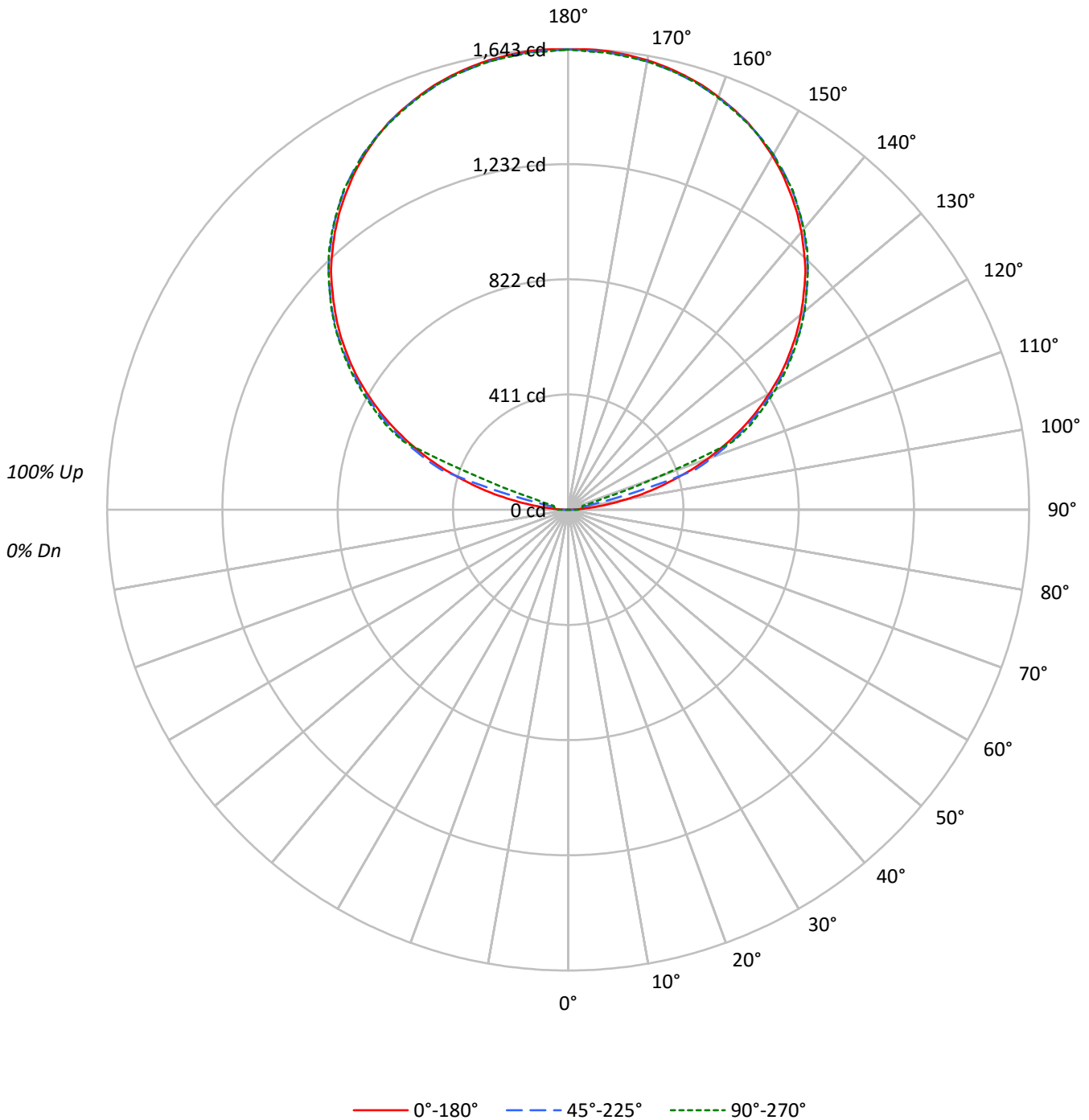
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.3	0.1
90°-100°	57.9	1.2
100°-110°	279.7	5.6
110°-120°	685.4	13.7
120°-130°	870.1	17.4
130°-140°	929.6	18.6
140°-150°	869.2	17.4
150°-160°	701.1	14.0
160°-170°	452.5	9.0
170°-180°	155.9	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.3	0.1
90°-120°	1023.0	20.4
90°-150°	3691.9	73.8
90°-180°	5001.0	99.9
0°-180°	5004.7	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°	1	13	29	34	37	4
95°	74	24	38	46	46	89
105°	363	377	267	51	54	385
115°	681	689	700	712	717	673
125°	960	970	975	978	980	858
135°	1196	1203	1208	1212	1208	921
145°	1380	1388	1391	1393	1393	864
155°	1520	1518	1519	1525	1518	700
165°	1603	1599	1598	1608	1599	453
175°	1641	1634	1636	1644	1634	156
180°	1641	1641	1641	1641	1641	



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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°	1.2	13.4	29.3	34.1	36.6
92.5°	28.0	20.7	31.7	40.2	41.4
95°	74.4	24.4	37.8	46.3	46.3
97.5°	135.3	101.2	39.0	48.8	50.0
100°	206.0	230.4	40.2	50.0	51.2
102.5°	286.4	302.3	90.2	50.0	52.4
105°	363.2	376.6	266.9	51.2	53.6
107.5°	444.9	455.9	474.1	286.4	126.8
110°	526.5	536.3	549.7	509.5	335.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	604.6	613.1	626.5	637.5	635.0
115°	681.3	688.7	699.6	711.8	716.7
117.5°	756.9	765.4	771.5	781.3	782.5
120°	826.4	837.4	841.0	850.8	850.8
122.5°	897.1	905.6	910.5	916.6	917.8
125°	960.5	970.2	975.1	977.5	980.0
127.5°	1023.8	1033.6	1039.7	1043.3	1040.9
130°	1082.3	1092.1	1097.0	1101.8	1099.4
132.5°	1138.4	1148.2	1151.8	1156.7	1153.0
135°	1195.7	1203.0	1207.9	1211.5	1207.9
137.5°	1244.5	1254.2	1256.6	1262.7	1260.3
140°	1293.2	1300.5	1304.2	1309.1	1306.6
142.5°	1338.3	1345.6	1349.3	1352.9	1349.3
145°	1379.7	1388.3	1390.7	1393.2	1393.2
147.5°	1420.0	1426.1	1428.5	1430.9	1424.8
150°	1456.5	1460.2	1462.6	1465.1	1461.4
152.5°	1489.4	1490.7	1491.9	1496.8	1490.7
155°	1519.9	1517.5	1518.7	1524.8	1517.5
157.5°	1544.3	1544.3	1543.1	1550.4	1540.6
160°	1566.2	1565.0	1563.8	1571.1	1562.6
162.5°	1587.0	1583.3	1582.1	1590.6	1583.3
165°	1602.8	1599.1	1597.9	1607.7	1599.1
167.5°	1616.2	1611.3	1611.3	1621.1	1611.3
170°	1627.2	1622.3	1622.3	1632.1	1622.3
172.5°	1634.5	1628.4	1629.6	1639.4	1628.4
175°	1640.6	1634.5	1635.7	1644.2	1634.5
177.5°	1643.0	1636.9	1638.1	1647.9	1635.7
180°	1640.6	1640.6	1640.6	1640.6	1640.6

(END OF REPORT)