

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: P334709

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334709
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-S1535U930-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 4339.8 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

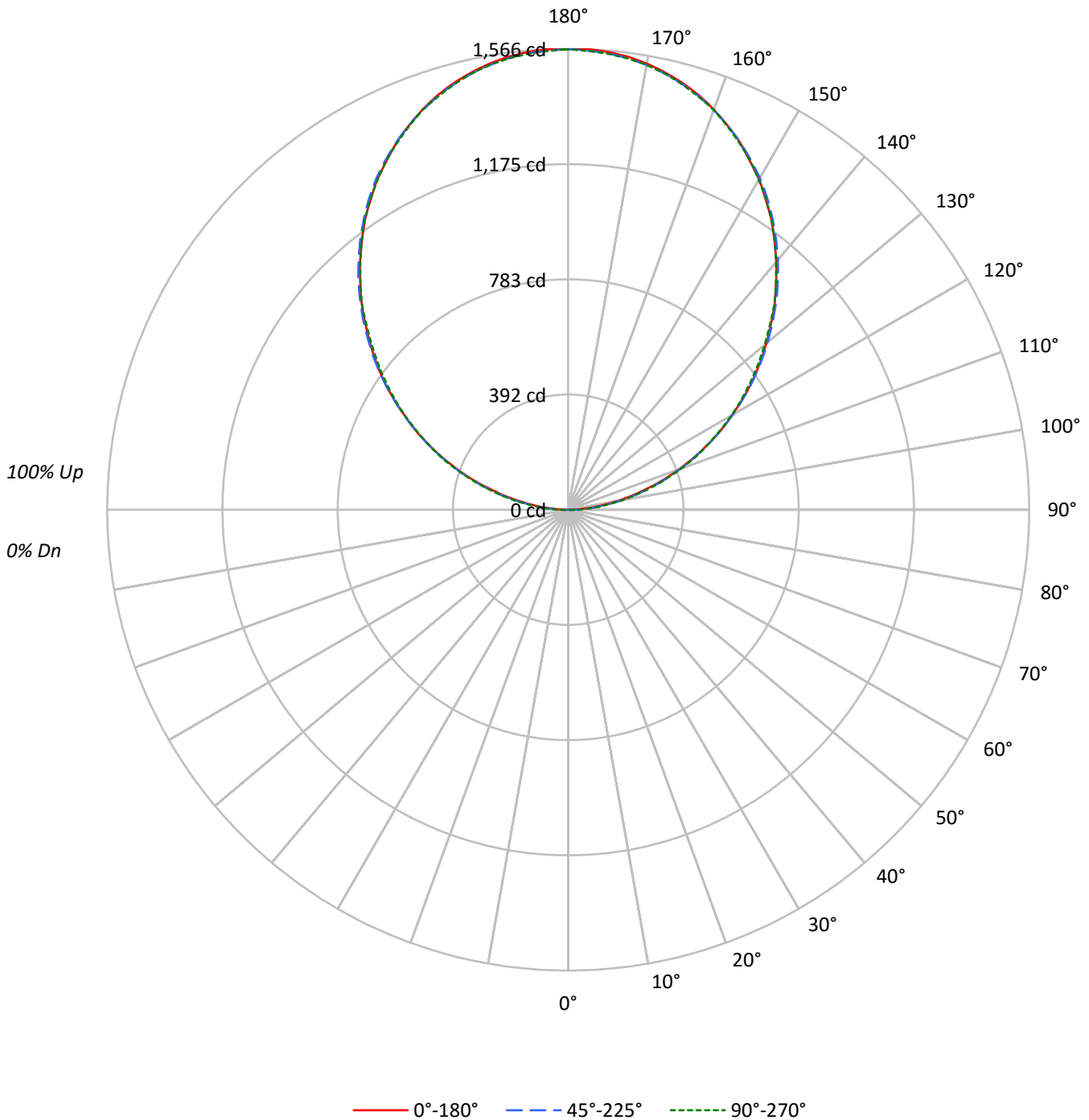
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.3	0.1
90°-100°	100.7	2.3
100°-110°	304.9	7.0
110°-120°	519.1	12.0
120°-130°	682.9	15.7
130°-140°	767.6	17.7
140°-150°	754.7	17.4
150°-160°	635.4	14.6
160°-170°	423.0	9.7
170°-180°	148.1	3.4
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°	924.8	21.3
90°-150°	3130.0	72.1
90°-180°	4336.0	99.9
0°-180°	4339.8	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	30	34	37	5
95°	72	81	91	96	96	80
105°	277	279	290	290	293	296
115°	522	526	524	525	524	517
125°	765	768	766	761	756	682
135°	992	1000	998	993	991	764
145°	1204	1206	1210	1208	1204	752
155°	1378	1378	1379	1384	1376	634
165°	1501	1497	1497	1505	1496	423
175°	1561	1556	1556	1564	1555	148
180°	1565	1565	1565	1565	1565	



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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	13.5	29.5	34.4	36.9
92.5°	36.9	44.3	51.6	55.3	52.9
95°	72.5	81.1	91.0	95.9	95.9
97.5°	119.3	125.4	132.8	138.9	137.7
100°	167.2	174.6	180.7	184.4	186.9
102.5°	222.5	226.2	234.8	238.5	237.3
105°	276.6	279.1	290.1	290.1	292.6
107.5°	340.6	341.8	346.7	350.4	349.2
110°	399.6	402.0	404.5	409.4	406.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	461.0	462.3	462.3	468.4	468.4
115°	522.5	526.2	523.7	525.0	523.7
117.5°	585.2	586.4	584.0	584.0	580.3
120°	643.0	650.4	644.2	643.0	640.5
122.5°	703.2	708.2	705.7	702.0	698.3
125°	764.7	768.4	765.9	761.0	756.1
127.5°	821.3	828.6	826.2	818.8	813.9
130°	877.8	887.6	884.0	879.0	870.4
132.5°	934.4	944.2	941.7	935.6	929.4
135°	992.1	999.5	998.3	993.4	990.9
137.5°	1045.0	1051.2	1054.8	1048.7	1045.0
140°	1100.3	1106.5	1107.7	1106.5	1097.9
142.5°	1150.7	1156.9	1159.4	1158.1	1152.0
145°	1203.6	1206.1	1209.8	1208.5	1203.6
147.5°	1249.1	1254.0	1257.7	1257.7	1250.3
150°	1297.0	1299.5	1302.0	1302.0	1294.6
152.5°	1336.4	1340.1	1341.3	1343.8	1337.6
155°	1378.2	1378.2	1379.4	1384.3	1375.7
157.5°	1413.8	1412.6	1413.8	1418.8	1411.4
160°	1447.0	1444.6	1444.6	1450.7	1445.8
162.5°	1476.5	1472.9	1474.1	1480.2	1471.6
165°	1501.1	1497.4	1497.4	1504.8	1496.2
167.5°	1522.0	1517.1	1518.3	1525.7	1518.3
170°	1539.2	1534.3	1534.3	1542.9	1534.3
172.5°	1552.8	1547.8	1547.8	1555.2	1546.6
175°	1561.4	1556.5	1556.5	1563.8	1555.2
177.5°	1566.3	1561.4	1561.4	1568.8	1560.1
180°	1565.1	1565.1	1565.1	1565.1	1565.1

(END OF REPORT)