

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: P334704

Luminaire Tested: **S123IW-S1535U927-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334704  
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-S1535U927-4F0-1E-UDD-1  
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1535 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4216.8 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Indirect

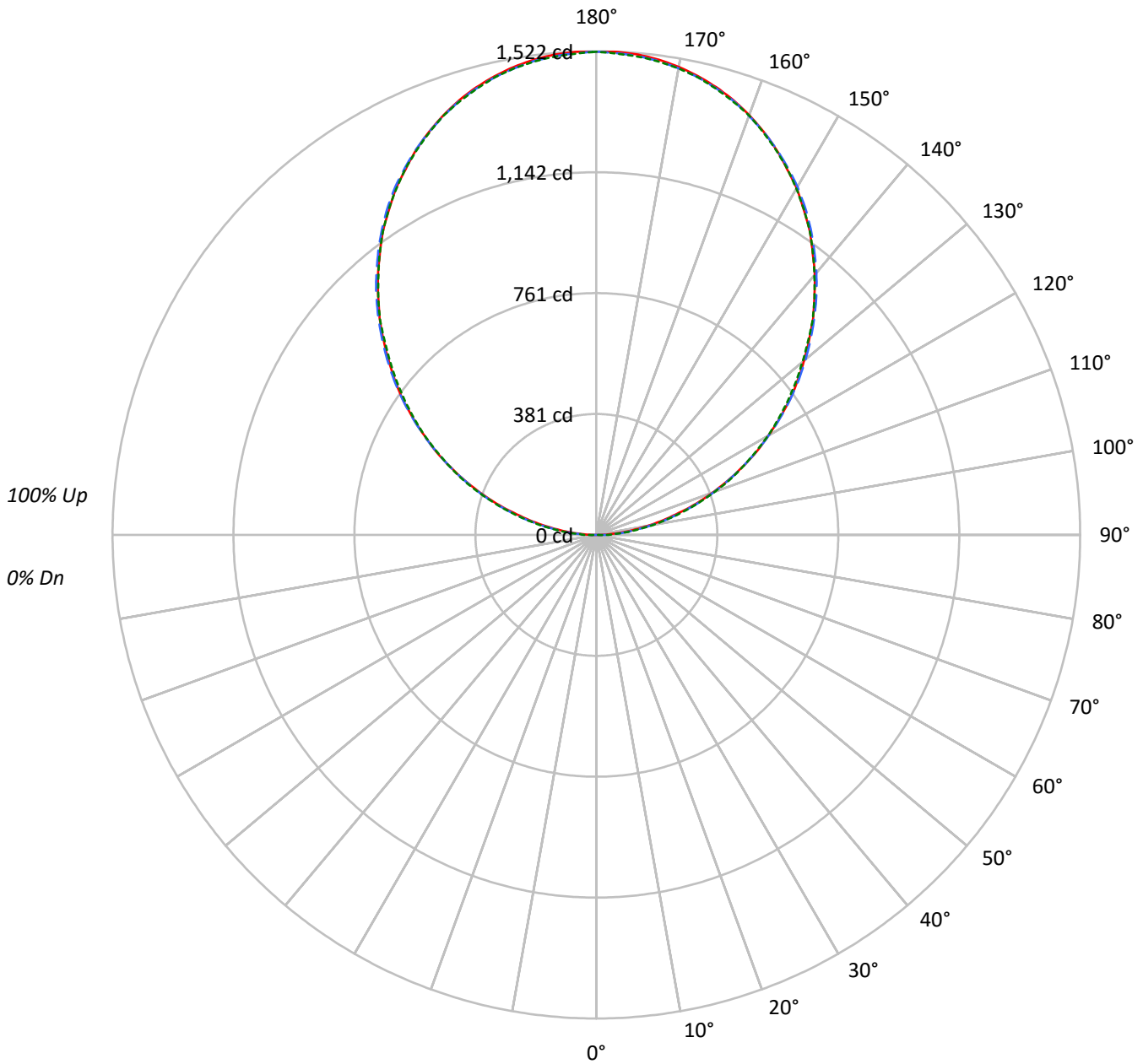
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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°	3.2	0.1
90°-100°	97.9	2.3
100°-110°	296.3	7.0
110°-120°	504.4	12.0
120°-130°	663.6	15.7
130°-140°	745.9	17.7
140°-150°	733.3	17.4
150°-160°	617.4	14.6
160°-170°	411.0	9.7
170°-180°	143.9	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	898.6	21.3
90°-150°	3041.3	72.1
90°-180°	4214.0	99.9
0°-180°	4216.8	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	13	29	33	36	5
95°	70	79	88	93	93	78
105°	269	271	282	282	284	288
115°	508	511	509	510	509	502
125°	743	747	744	739	735	663
135°	964	971	970	965	963	743
145°	1170	1172	1176	1174	1170	730
155°	1339	1339	1340	1345	1337	616
165°	1459	1455	1455	1462	1454	411
175°	1517	1512	1512	1520	1511	144
180°	1521	1521	1521	1521	1521	



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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	13.1	28.7	33.4	35.8
92.5°	35.8	43.0	50.2	53.8	51.4
95°	70.5	78.8	88.4	93.2	93.2
97.5°	115.9	121.8	129.0	135.0	133.8
100°	162.5	169.6	175.6	179.2	181.6
102.5°	216.2	219.8	228.2	231.7	230.6
105°	268.8	271.2	281.9	281.9	284.3
107.5°	330.9	332.1	336.9	340.5	339.3
110°	388.2	390.6	393.0	397.8	395.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	448.0	449.2	449.2	455.1	455.1
115°	507.7	511.3	508.9	510.1	508.9
117.5°	568.6	569.8	567.4	567.4	563.8
120°	624.8	631.9	626.0	624.8	622.4
122.5°	683.3	688.1	685.7	682.1	678.5
125°	743.0	746.6	744.2	739.4	734.7
127.5°	798.0	805.1	802.8	795.6	790.8
130°	852.9	862.5	858.9	854.1	845.8
132.5°	907.9	917.4	915.0	909.1	903.1
135°	964.0	971.2	970.0	965.2	962.8
137.5°	1015.4	1021.4	1024.9	1019.0	1015.4
140°	1069.1	1075.1	1076.3	1075.1	1066.7
142.5°	1118.1	1124.1	1126.5	1125.3	1119.3
145°	1169.5	1171.9	1175.5	1174.3	1169.5
147.5°	1213.7	1218.5	1222.0	1222.0	1214.9
150°	1260.3	1262.7	1265.0	1265.0	1257.9
152.5°	1298.5	1302.1	1303.3	1305.7	1299.7
155°	1339.1	1339.1	1340.3	1345.1	1336.7
157.5°	1373.8	1372.6	1373.8	1378.5	1371.4
160°	1406.0	1403.6	1403.6	1409.6	1404.8
162.5°	1434.7	1431.1	1432.3	1438.3	1429.9
165°	1458.6	1455.0	1455.0	1462.2	1453.8
167.5°	1478.9	1474.1	1475.3	1482.5	1475.3
170°	1495.6	1490.8	1490.8	1499.2	1490.8
172.5°	1508.7	1504.0	1504.0	1511.1	1502.8
175°	1517.1	1512.3	1512.3	1519.5	1511.1
177.5°	1521.9	1517.1	1517.1	1524.3	1515.9
180°	1520.7	1520.7	1520.7	1520.7	1520.7

(END OF REPORT)