

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: P334757

Luminaire Tested: **S123IW-S1030U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334757
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-S1030U830-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1030 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3887.2 lumens
Efficiency: N/A
Efficacy: 198.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

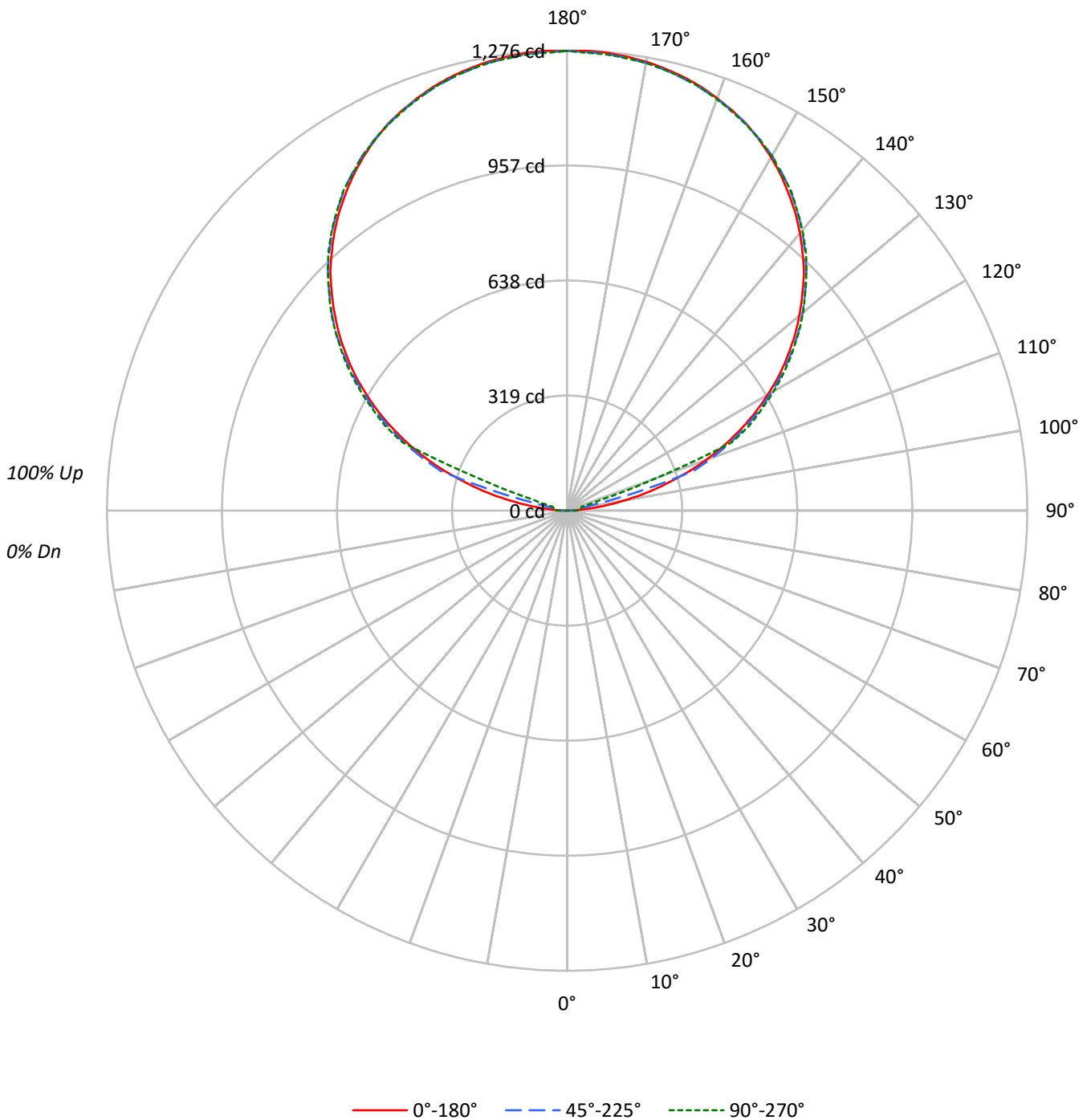
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.5	0.1
90°-100°	44.9	1.2
100°-110°	217.3	5.6
110°-120°	532.4	13.7
120°-130°	675.8	17.4
130°-140°	722.0	18.6
140°-150°	675.1	17.4
150°-160°	544.6	14.0
160°-170°	351.4	9.0
170°-180°	121.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.5	0.1
90°-120°	794.6	20.4
90°-150°	2867.6	73.8
90°-180°	3885.0	99.9
0°-180°	3887.2	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	10	23	26	28	3
95°	58	19	29	36	36	69
105°	282	292	207	40	42	299
115°	529	535	543	553	557	523
125°	746	754	757	759	761	667
135°	929	934	938	941	938	715
145°	1072	1078	1080	1082	1082	671
155°	1180	1179	1180	1184	1179	544
165°	1245	1242	1241	1249	1242	352
175°	1274	1270	1270	1277	1270	121
180°	1274	1274	1274	1274	1274	



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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°	0.9	10.4	22.7	26.5	28.4
92.5°	21.8	16.1	24.6	31.2	32.2
95°	57.7	18.9	29.3	36.0	36.0
97.5°	105.1	78.6	30.3	37.9	38.8
100°	160.0	178.9	31.2	38.8	39.8
102.5°	222.5	234.8	70.1	38.8	40.7
105°	282.1	292.5	207.3	39.8	41.7
107.5°	345.5	354.1	368.3	222.5	98.5
110°	409.0	416.5	427.0	395.7	260.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	469.6	476.2	486.6	495.1	493.2
115°	529.2	534.9	543.4	552.9	556.7
117.5°	587.9	594.5	599.3	606.8	607.8
120°	641.9	650.4	653.2	660.8	660.8
122.5°	696.8	703.4	707.2	711.9	712.9
125°	746.0	753.6	757.4	759.2	761.1
127.5°	795.2	802.8	807.5	810.4	808.5
130°	840.7	848.2	852.0	855.8	853.9
132.5°	884.2	891.8	894.6	898.4	895.6
135°	928.7	934.4	938.2	941.0	938.2
137.5°	966.6	974.1	976.0	980.8	978.9
140°	1004.4	1010.1	1013.0	1016.8	1014.9
142.5°	1039.5	1045.2	1048.0	1050.8	1048.0
145°	1071.7	1078.3	1080.2	1082.1	1082.1
147.5°	1102.9	1107.6	1109.5	1111.4	1106.7
150°	1131.3	1134.1	1136.0	1137.9	1135.1
152.5°	1156.9	1157.8	1158.8	1162.5	1157.8
155°	1180.5	1178.6	1179.6	1184.3	1178.6
157.5°	1199.5	1199.5	1198.5	1204.2	1196.6
160°	1216.5	1215.6	1214.6	1220.3	1213.7
162.5°	1232.6	1229.8	1228.8	1235.4	1229.8
165°	1244.9	1242.1	1241.1	1248.7	1242.1
167.5°	1255.3	1251.5	1251.5	1259.1	1251.5
170°	1263.8	1260.1	1260.1	1267.6	1260.1
172.5°	1269.5	1264.8	1265.7	1273.3	1264.8
175°	1274.3	1269.5	1270.5	1277.1	1269.5
177.5°	1276.1	1271.4	1272.4	1279.9	1270.5
180°	1274.3	1274.3	1274.3	1274.3	1274.3

(END OF REPORT)