

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: P334708

Luminaire Tested: **S123IW-S1320U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334708
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-S1320U930-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1320 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3732.7 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

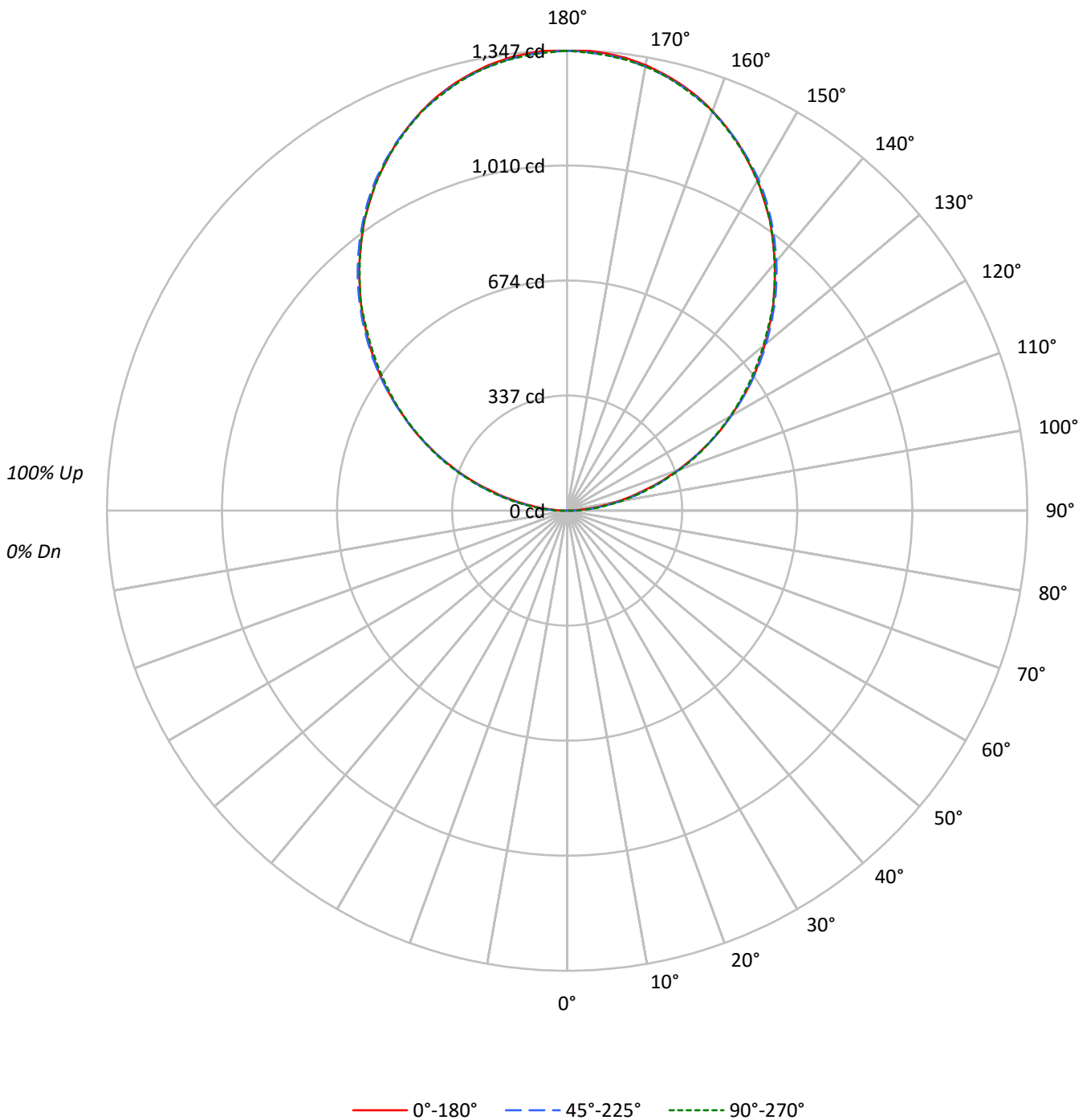
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.8	0.1
90°-100°	86.7	2.3
100°-110°	262.3	7.0
110°-120°	446.5	12.0
120°-130°	587.4	15.7
130°-140°	660.2	17.7
140°-150°	649.1	17.4
150°-160°	546.5	14.6
160°-170°	363.8	9.7
170°-180°	127.4	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	795.4	21.3
90°-150°	2692.2	72.1
90°-180°	3730.0	99.9
0°-180°	3732.7	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	12	25	30	32	5
95°	62	70	78	82	82	69
105°	238	240	250	250	252	255
115°	449	453	450	452	450	445
125°	658	661	659	654	650	587
135°	853	860	859	854	852	658
145°	1035	1037	1040	1039	1035	647
155°	1185	1185	1186	1191	1183	546
165°	1291	1288	1288	1294	1287	364
175°	1343	1339	1339	1345	1338	128
180°	1346	1346	1346	1346	1346	



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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°	1.1	11.6	25.4	29.6	31.7
92.5°	31.7	38.1	44.4	47.6	45.5
95°	62.4	69.8	78.2	82.5	82.5
97.5°	102.6	107.9	114.2	119.5	118.4
100°	143.8	150.2	155.4	158.6	160.7
102.5°	191.4	194.6	202.0	205.1	204.1
105°	237.9	240.0	249.6	249.6	251.7
107.5°	292.9	294.0	298.2	301.4	300.3
110°	343.7	345.8	347.9	352.1	350.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	396.5	397.6	397.6	402.9	402.9
115°	449.4	452.6	450.5	451.5	450.5
117.5°	503.3	504.4	502.3	502.3	499.1
120°	553.0	559.4	554.1	553.0	550.9
122.5°	604.8	609.1	607.0	603.8	600.6
125°	657.7	660.9	658.8	654.5	650.3
127.5°	706.4	712.7	710.6	704.2	700.0
130°	755.0	763.5	760.3	756.1	748.7
132.5°	803.6	812.1	810.0	804.7	799.4
135°	853.3	859.7	858.6	854.4	852.3
137.5°	898.8	904.1	907.3	902.0	898.8
140°	946.4	951.7	952.7	951.7	944.3
142.5°	989.7	995.0	997.2	996.1	990.8
145°	1035.2	1037.3	1040.5	1039.4	1035.2
147.5°	1074.3	1078.6	1081.7	1081.7	1075.4
150°	1115.6	1117.7	1119.8	1119.8	1113.5
152.5°	1149.4	1152.6	1153.7	1155.8	1150.5
155°	1185.4	1185.4	1186.4	1190.7	1183.3
157.5°	1216.0	1215.0	1216.0	1220.3	1213.9
160°	1244.6	1242.5	1242.5	1247.8	1243.5
162.5°	1270.0	1266.8	1267.9	1273.1	1265.7
165°	1291.1	1287.9	1287.9	1294.3	1286.9
167.5°	1309.1	1304.9	1305.9	1312.3	1305.9
170°	1323.9	1319.7	1319.7	1327.1	1319.7
172.5°	1335.5	1331.3	1331.3	1337.6	1330.2
175°	1342.9	1338.7	1338.7	1345.0	1337.6
177.5°	1347.2	1342.9	1342.9	1349.3	1341.9
180°	1346.1	1346.1	1346.1	1346.1	1346.1

(END OF REPORT)