

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: P334787

Luminaire Tested: **S123IW-S1030U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334787
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-S1030U940-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1030 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3677.6 lumens
Efficiency: N/A
Efficacy: 187.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

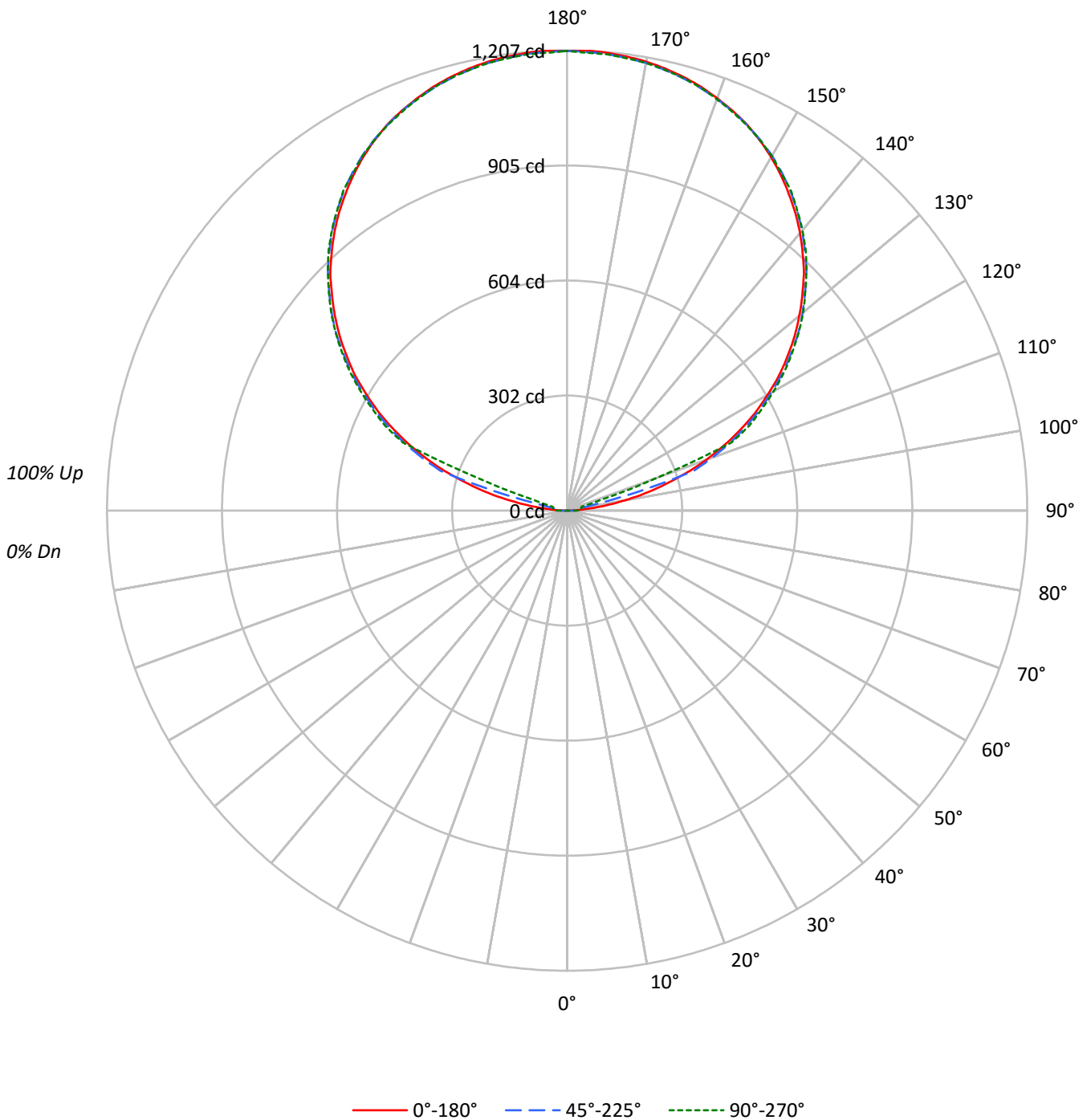
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.4	0.1
90°-100°	42.5	1.2
100°-110°	205.5	5.6
110°-120°	503.7	13.7
120°-130°	639.4	17.4
130°-140°	683.1	18.6
140°-150°	638.7	17.4
150°-160°	515.2	14.0
160°-170°	332.5	9.0
170°-180°	114.6	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	751.7	20.4
90°-150°	2712.9	73.8
90°-180°	3675.0	99.9
0°-180°	3677.6	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	22	25	27	3
95°	55	18	28	34	34	65
105°	267	277	196	38	39	283
115°	501	506	514	523	527	494
125°	706	713	716	718	720	631
135°	879	884	888	890	888	676
145°	1014	1020	1022	1024	1024	635
155°	1117	1115	1116	1120	1115	515
165°	1178	1175	1174	1181	1175	333
175°	1206	1201	1202	1208	1201	115
180°	1206	1206	1206	1206	1206	



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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	9.9	21.5	25.1	26.9
92.5°	20.6	15.2	23.3	29.6	30.5
95°	54.6	17.9	27.8	34.0	34.0
97.5°	99.4	74.3	28.7	35.8	36.7
100°	151.4	169.3	29.6	36.7	37.6
102.5°	210.5	222.1	66.3	36.7	38.5
105°	266.9	276.8	196.1	37.6	39.4
107.5°	326.9	335.0	348.4	210.5	93.1
110°	386.9	394.1	403.9	374.4	246.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	444.2	450.5	460.4	468.4	466.6
115°	500.7	506.0	514.1	523.1	526.6
117.5°	556.2	562.5	566.9	574.1	575.0
120°	607.2	615.3	618.0	625.2	625.2
122.5°	659.2	665.5	669.0	673.5	674.4
125°	705.8	712.9	716.5	718.3	720.1
127.5°	752.3	759.5	764.0	766.7	764.9
130°	795.3	802.5	806.1	809.7	807.9
132.5°	836.5	843.7	846.4	850.0	847.3
135°	878.6	884.0	887.6	890.3	887.6
137.5°	914.4	921.6	923.4	927.9	926.1
140°	950.3	955.6	958.3	961.9	960.1
142.5°	983.4	988.8	991.5	994.2	991.5
145°	1013.9	1020.1	1021.9	1023.7	1023.7
147.5°	1043.4	1047.9	1049.7	1051.5	1047.0
150°	1070.3	1073.0	1074.8	1076.6	1073.9
152.5°	1094.5	1095.4	1096.3	1099.8	1095.4
155°	1116.9	1115.1	1116.0	1120.4	1115.1
157.5°	1134.8	1134.8	1133.9	1139.3	1132.1
160°	1150.9	1150.0	1149.1	1154.5	1148.2
162.5°	1166.1	1163.4	1162.5	1168.8	1163.4
165°	1177.8	1175.1	1174.2	1181.3	1175.1
167.5°	1187.6	1184.0	1184.0	1191.2	1184.0
170°	1195.7	1192.1	1192.1	1199.3	1192.1
172.5°	1201.1	1196.6	1197.5	1204.6	1196.6
175°	1205.5	1201.1	1201.9	1208.2	1201.1
177.5°	1207.3	1202.8	1203.7	1210.9	1201.9
180°	1205.5	1205.5	1205.5	1205.5	1205.5

(END OF REPORT)