

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: FAIL-SAFE

Report Number: P184379

Luminaire Tested: **ENW/ENC-24-2-LD1-39-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184379
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-24-2-LD1-39-40-CP250-UNV-EDC1
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

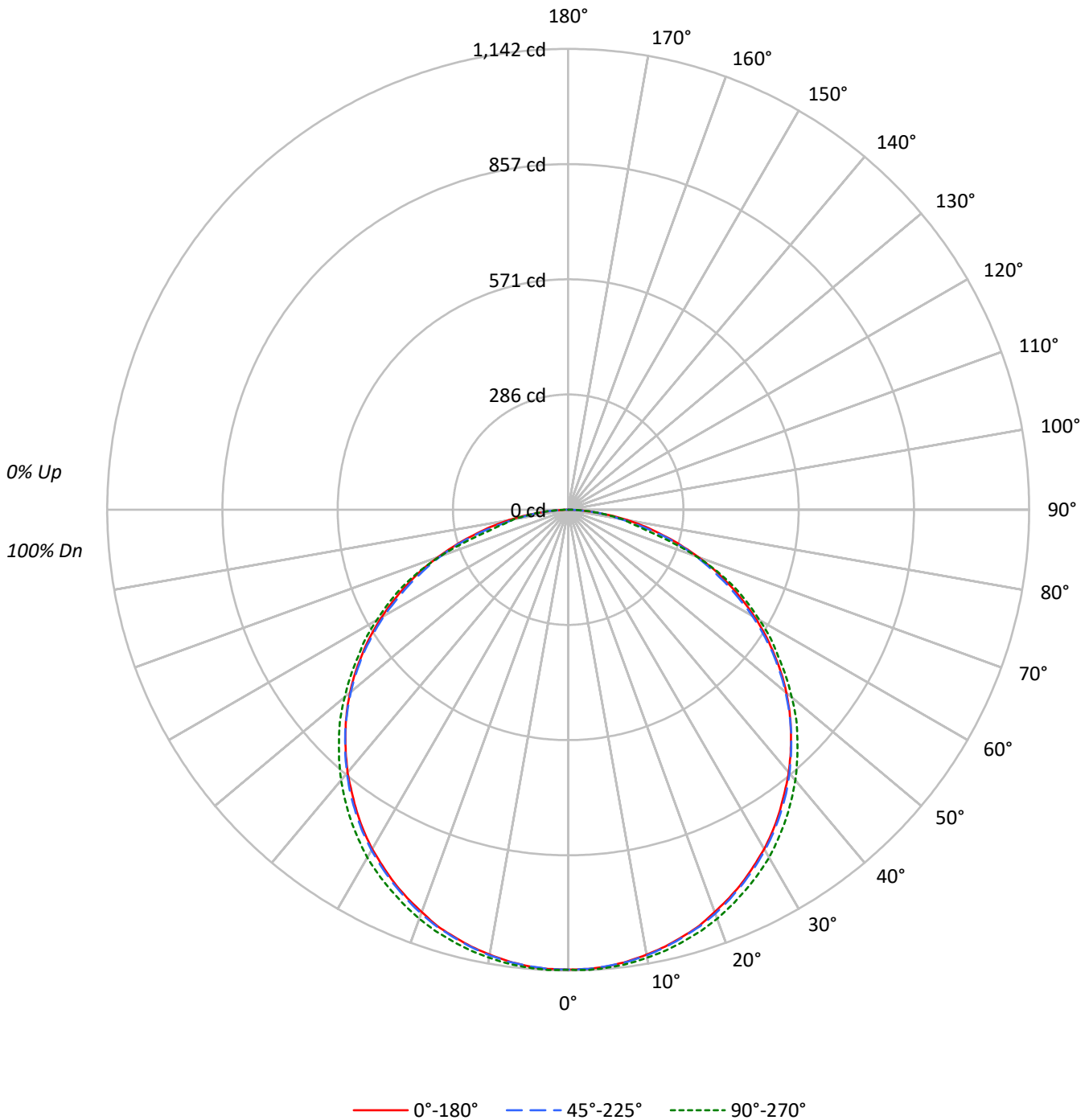
Lumens per Lamp: N/A
Luminaire Lumens: 3374.7 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41.6
Input Voltage (V): NR
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3067	3067	3067
5°	3054	3047	3063
10°	3033	3026	3053
15°	3011	2999	3044
20°	2984	2974	3034
25°	2959	2941	3017
30°	2933	2909	3006
35°	2898	2871	2981
40°	2866	2827	2951
45°	2828	2777	2910
50°	2788	2715	2857
55°	2725	2634	2785
60°	2646	2525	2713
65°	2536	2373	2613
70°	2371	2208	2342
75°	2127	1921	1788
80°	1795	1412	1653
85°	1073	990	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	3.2
10°-20°	310.4	9.2
20°-30°	473.3	14.0
30°-40°	576.5	17.1
40°-50°	606.4	18.0
50°-60°	557.2	16.5
60°-70°	432.4	12.8
70°-80°	243.3	7.2
80°-90°	67.2	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	891.6	26.4
0°-40°	1468.2	43.5
0°-60°	2631.8	78.0
0°-90°	3374.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3374.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1136	1135	1135	1138	1139	108
15°	1095	1095	1097	1104	1107	309
25°	1020	1020	1023	1032	1040	470
35°	913	913	917	929	939	571
45°	780	780	781	793	803	602
55°	622	622	618	626	636	556
65°	441	436	429	440	454	436
75°	243	241	234	208	204	258
85°	55	55	58	58	59	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.9	1139.9	1139.9	1139.9	1139.9
2.5°	1139.0	1138.2	1139.0	1140.7	1141.6
5°	1135.7	1134.8	1134.8	1138.2	1139.0
7.5°	1129.0	1128.1	1129.8	1132.3	1134.8
10°	1119.7	1119.7	1121.4	1124.8	1127.3
12.5°	1108.8	1108.8	1110.5	1115.5	1118.9
15°	1095.4	1095.4	1097.0	1103.8	1107.1
17.5°	1081.1	1079.4	1082.8	1088.6	1094.5
20°	1060.9	1061.8	1065.1	1071.8	1078.6
22.5°	1041.6	1041.6	1045.0	1053.4	1060.1
25°	1019.8	1019.8	1023.1	1032.4	1039.9
27.5°	995.4	996.2	999.6	1009.7	1018.9
30°	971.0	971.9	974.4	986.2	995.4
32.5°	943.3	943.3	947.5	958.4	967.7
35°	913.1	913.1	917.3	929.0	939.1
37.5°	881.2	882.0	886.2	897.1	908.0
40°	850.1	849.2	852.6	864.4	875.3
42.5°	815.6	814.8	817.3	829.9	840.0
45°	780.4	779.5	781.2	793.0	803.0
47.5°	744.2	741.7	742.6	754.3	766.1
50°	705.6	703.9	703.1	713.2	723.2
52.5°	665.3	663.6	661.1	671.2	680.4
55°	622.4	621.6	618.2	625.8	635.9
57.5°	579.6	577.1	572.9	579.6	595.6
60°	534.2	530.9	526.7	533.4	547.7
62.5°	488.0	483.0	477.1	486.4	501.5
65°	441.0	436.0	429.2	440.2	454.4
67.5°	394.0	387.2	382.2	389.8	399.8
70°	342.7	337.7	335.2	333.5	338.5
72.5°	292.3	289.8	287.3	272.2	270.5
75°	242.8	241.1	233.5	208.3	204.1
77.5°	195.7	193.2	177.2	157.9	162.1
80°	148.7	146.2	127.7	131.0	136.9
82.5°	102.5	98.3	94.9	95.8	96.6
85°	54.6	54.6	58.0	58.0	58.8
87.5°	22.7	22.7	25.2	26.0	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)