

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: P184367

Luminaire Tested: **ENW/ENC-12-4-LD1-43-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184367
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32844)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-12-4-LD1-43-40-CP250-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

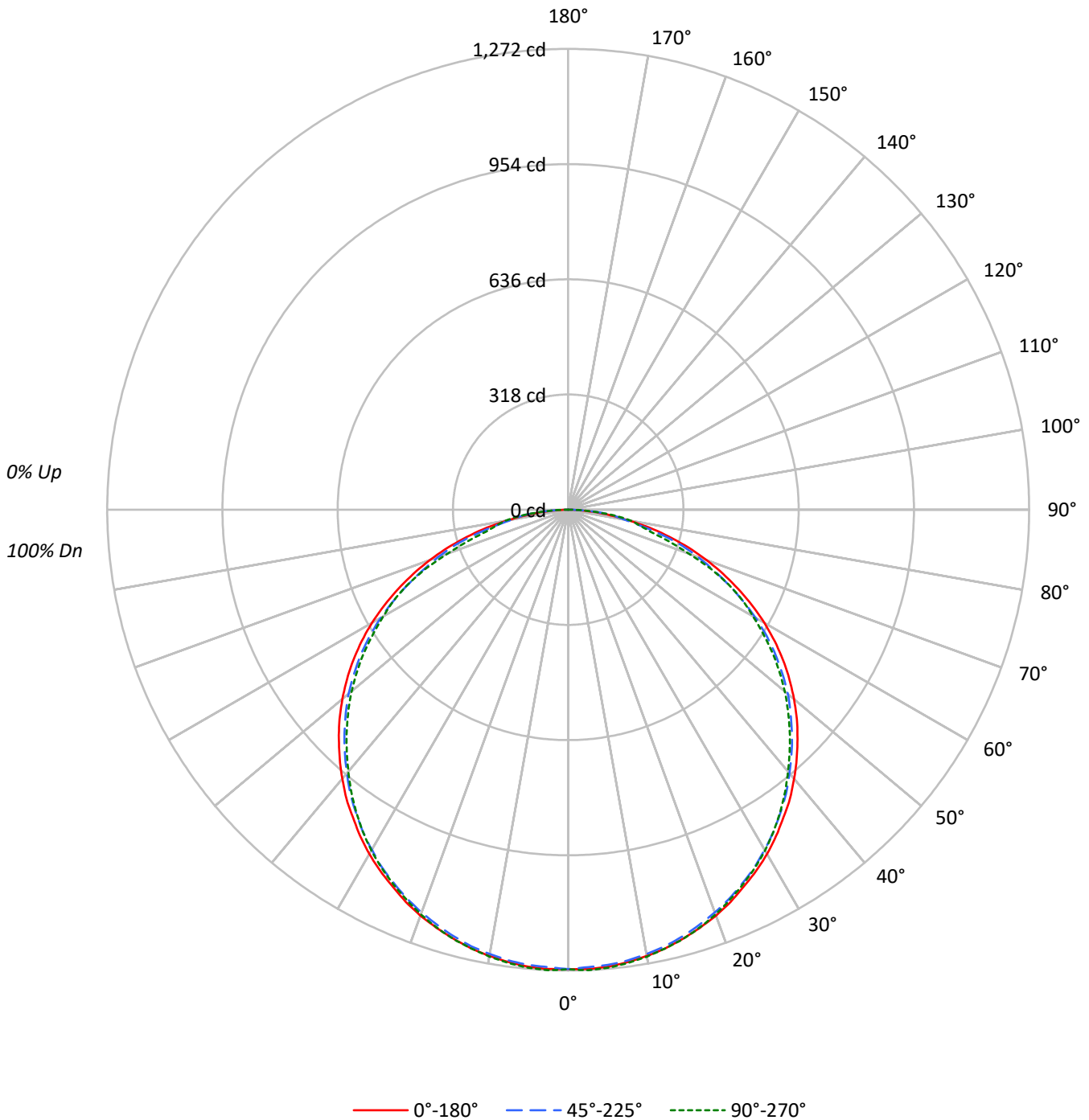
Lumens per Lamp: N/A
Luminaire Lumens: 3795.9 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): 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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3412	3412	3412
5°	3413	3380	3398
10°	3403	3351	3363
15°	3391	3319	3327
20°	3384	3282	3285
25°	3367	3244	3237
30°	3362	3204	3191
35°	3344	3159	3129
40°	3336	3106	3058
45°	3323	3053	2991
50°	3306	2998	2918
55°	3278	2909	2824
60°	3226	2789	2701
65°	3127	2607	2558
70°	2984	2411	2180
75°	2746	2094	1771
80°	2277	1616	1746
85°	1631	1282	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	3.2
10°-20°	345.4	9.1
20°-30°	526.5	13.9
30°-40°	641.2	16.9
40°-50°	676.4	17.8
50°-60°	627.0	16.5
60°-70°	489.9	12.9
70°-80°	281.2	7.4
80°-90°	88.1	2.3
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°	992.1	26.1
0°-40°	1633.3	43.0
0°-60°	2936.7	77.4
0°-90°	3795.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3795.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1266	1266	1261	1266	1269	120
15°	1226	1226	1219	1223	1226	346
25°	1147	1144	1138	1140	1141	530
35°	1036	1032	1021	1018	1019	649
45°	895	889	873	866	864	691
55°	724	715	698	690	688	646
65°	518	509	487	489	488	512
75°	289	277	268	239	234	304
85°	68	72	84	82	83	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.1	1268.1	1268.1	1268.1	1268.1
2.5°	1269.0	1268.1	1263.7	1269.8	1272.4
5°	1266.3	1265.5	1261.1	1266.3	1269.0
7.5°	1259.4	1260.2	1255.1	1259.4	1262.0
10°	1250.7	1249.8	1245.4	1250.7	1252.4
12.5°	1240.2	1238.5	1234.2	1237.6	1240.2
15°	1225.5	1225.5	1219.4	1222.9	1226.4
17.5°	1209.8	1208.1	1202.0	1207.3	1208.9
20°	1192.4	1189.8	1182.9	1186.3	1188.9
22.5°	1171.5	1168.1	1161.9	1164.5	1165.4
25°	1147.2	1144.5	1137.6	1140.2	1141.1
27.5°	1123.7	1119.3	1113.3	1113.3	1115.0
30°	1097.6	1091.5	1083.7	1083.7	1086.3
32.5°	1068.0	1062.0	1054.1	1052.4	1054.1
35°	1035.9	1031.5	1021.1	1018.5	1019.3
37.5°	1005.5	998.5	988.0	982.0	982.8
40°	969.7	963.7	949.8	943.6	943.6
42.5°	933.2	927.2	912.4	905.4	904.5
45°	895.0	888.9	873.2	866.3	864.5
47.5°	855.9	847.9	832.3	824.5	822.7
50°	813.2	805.4	791.5	781.0	780.2
52.5°	769.7	761.9	745.4	735.8	734.9
55°	723.6	714.9	698.4	689.7	688.0
57.5°	675.7	667.1	649.7	641.0	637.6
60°	625.3	615.8	597.5	588.8	588.8
62.5°	572.3	562.7	542.7	538.3	542.7
65°	517.5	508.8	487.0	488.8	487.9
67.5°	462.7	453.1	432.2	434.8	425.3
70°	405.3	394.9	380.9	367.9	353.2
72.5°	347.9	335.7	328.8	298.4	291.4
75°	288.8	276.6	267.9	239.1	233.9
77.5°	230.5	223.5	204.4	195.7	202.7
80°	167.8	174.8	156.6	169.6	176.6
82.5°	117.4	117.4	127.0	134.8	134.8
85°	67.9	72.1	83.5	81.8	82.7
87.5°	29.6	36.5	34.8	36.5	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)