

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: P184362

Luminaire Tested: **ENW/ENC-12-4-LD1-33-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184362
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32842)
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-LD1-33-40-CP187-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

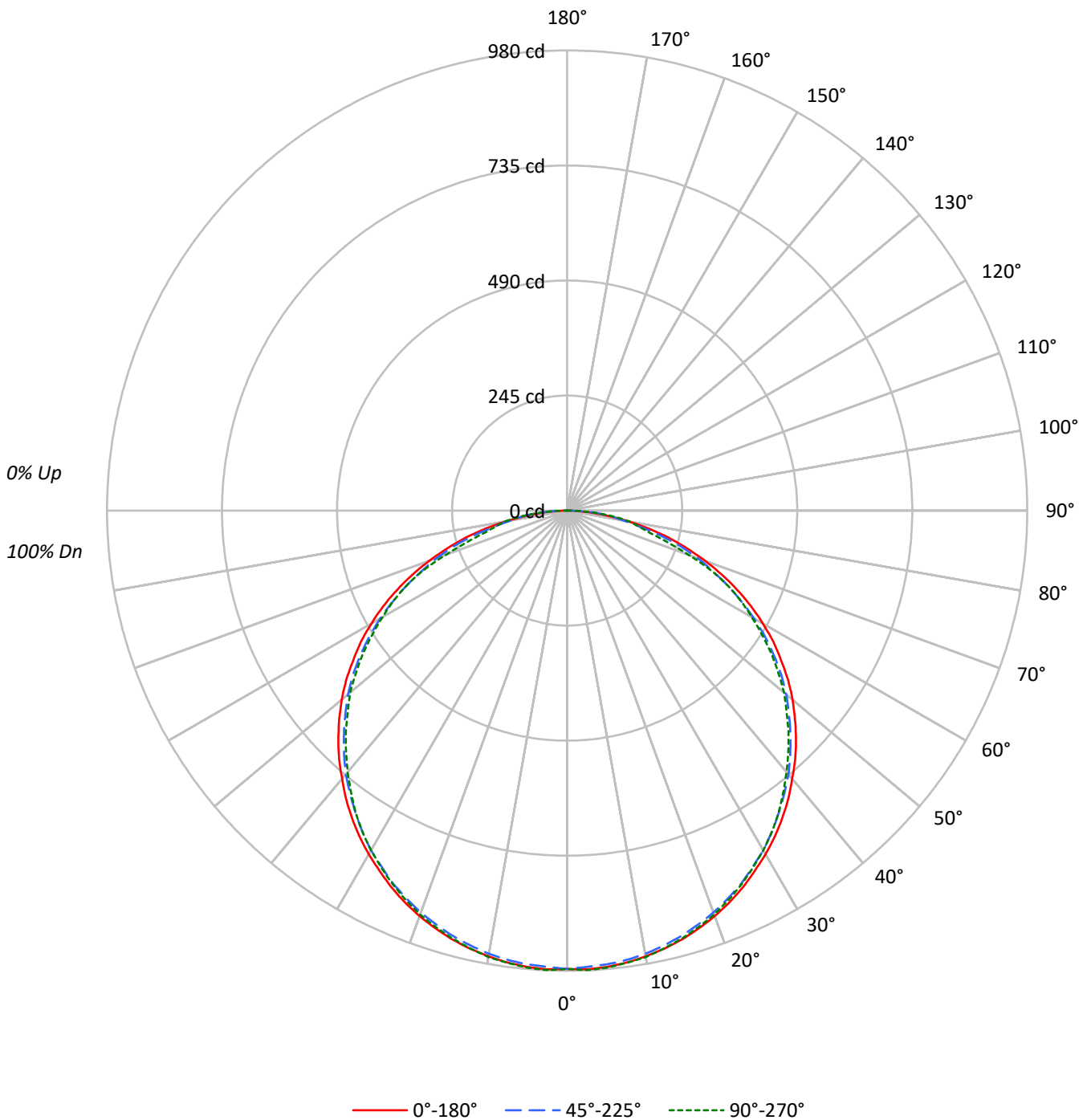
Lumens per Lamp: N/A
Luminaire Lumens: 2924.3 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.4
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°	2627	2627	2627
5°	2629	2600	2616
10°	2622	2579	2593
15°	2616	2554	2560
20°	2608	2528	2529
25°	2599	2500	2492
30°	2588	2469	2454
35°	2580	2431	2410
40°	2565	2398	2356
45°	2559	2351	2305
50°	2548	2307	2255
55°	2520	2240	2179
60°	2483	2145	2083
65°	2415	2016	1979
70°	2300	1867	1695
75°	2134	1617	1367
80°	1792	1245	1341
85°	1227	1014	913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	3.2
10°-20°	265.9	9.1
20°-30°	405.3	13.9
30°-40°	493.8	16.9
40°-50°	521.2	17.8
50°-60°	483.0	16.5
60°-70°	377.6	12.9
70°-80°	217.1	7.4
80°-90°	67.9	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°	763.8	26.1
0°-40°	1257.6	43.0
0°-60°	2261.7	77.3
0°-90°	2924.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2924.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	975	974	970	974	977	93
15°	945	943	938	942	944	267
25°	885	882	877	878	878	408
35°	799	794	786	784	785	500
45°	689	685	672	667	666	532
55°	556	552	538	531	531	498
65°	400	392	377	376	378	395
75°	224	214	207	185	180	235
85°	51	55	66	62	63	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.1	976.1	976.1	976.1	976.1
2.5°	977.9	976.9	972.6	976.9	979.6
5°	975.3	974.3	969.9	974.3	976.9
7.5°	970.9	969.9	965.5	969.9	971.7
10°	963.8	962.0	958.5	962.9	965.5
12.5°	955.8	953.2	948.8	953.2	954.9
15°	945.4	942.6	938.3	941.7	943.5
17.5°	933.0	930.3	925.0	928.6	930.3
20°	918.9	916.2	911.0	913.6	915.3
22.5°	903.1	899.5	894.3	895.1	897.7
25°	885.4	881.9	876.6	877.5	878.4
27.5°	865.1	861.7	855.5	856.4	857.3
30°	845.0	841.5	835.2	834.4	835.2
32.5°	822.9	818.5	811.5	809.7	811.5
35°	799.2	794.0	785.9	784.2	785.1
37.5°	773.6	769.3	759.6	757.0	756.0
40°	745.5	742.0	733.2	727.9	727.1
42.5°	719.0	713.8	703.3	698.8	697.1
45°	689.2	684.8	672.4	667.2	666.3
47.5°	658.3	653.1	640.8	635.5	633.7
50°	626.7	621.3	609.0	602.0	602.9
52.5°	593.2	587.1	574.7	567.7	566.8
55°	556.2	551.8	537.7	530.7	530.7
57.5°	521.1	514.0	499.9	492.0	492.0
60°	481.4	473.6	459.5	452.4	454.1
62.5°	441.8	434.8	418.1	414.5	417.2
65°	399.6	391.7	376.7	375.8	377.5
67.5°	356.4	347.7	334.5	333.6	330.1
70°	312.4	303.7	294.9	283.4	274.6
72.5°	267.6	260.5	253.5	230.6	222.7
75°	224.4	213.9	206.8	184.8	180.5
77.5°	177.8	173.4	158.4	150.6	154.9
80°	132.0	134.7	120.6	130.2	135.6
82.5°	88.9	92.4	96.9	103.9	102.9
85°	51.1	55.4	66.0	62.5	63.4
87.5°	22.0	27.3	28.1	27.3	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)