

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: P184353

Luminaire Tested: **ENW/ENC-12-4-LD1-25-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184353
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32840)
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-LD1-25-40-CP125-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: CLUNVCC161023VD010

Summary

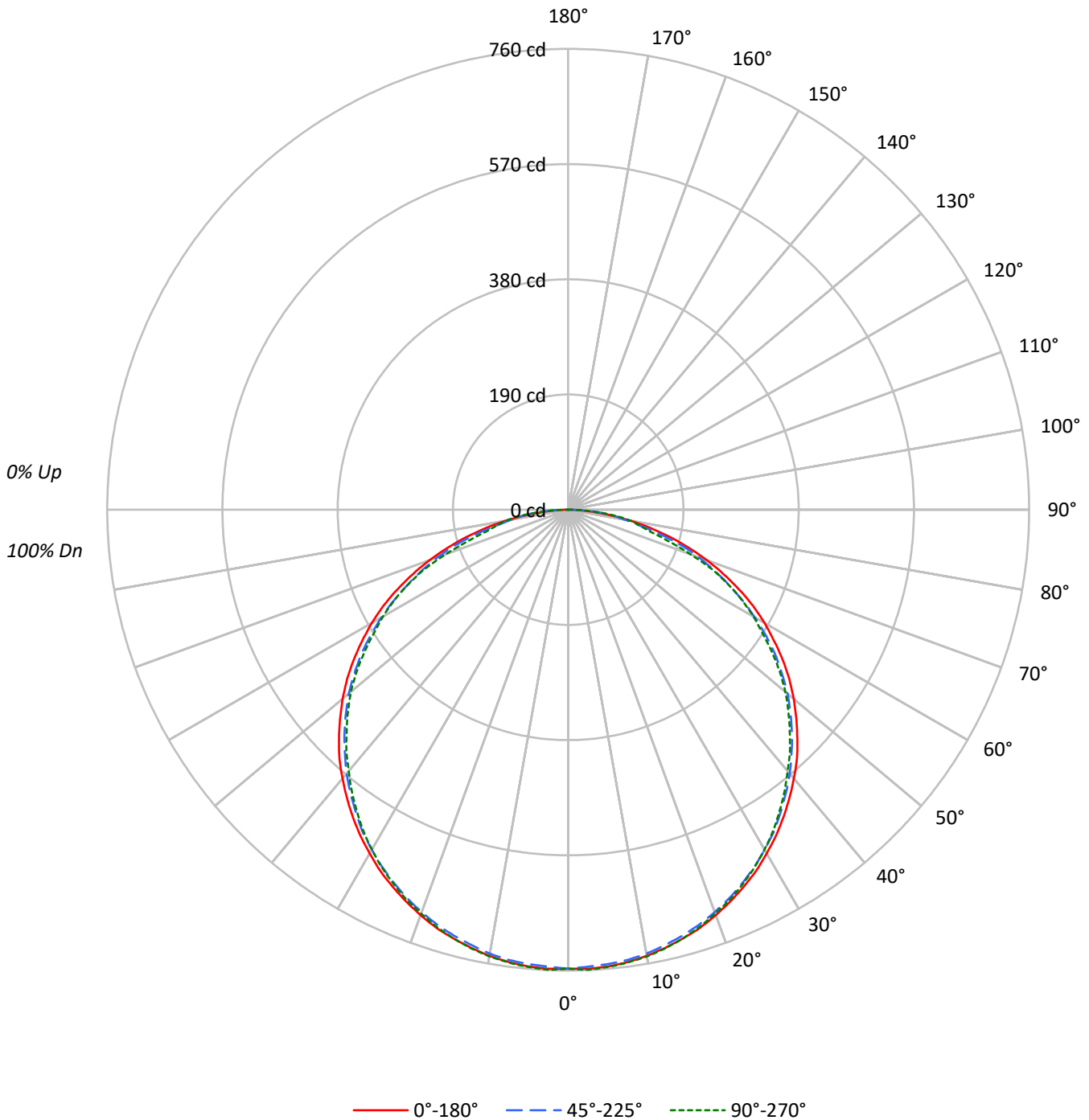
Lumens per Lamp: N/A
Luminaire Lumens: 2267.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25
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°	2037	2037	2037
5°	2038	2017	2027
10°	2032	2000	2008
15°	2025	1980	1986
20°	2019	1959	1958
25°	2012	1937	1932
30°	2004	1914	1902
35°	1998	1887	1864
40°	1991	1858	1824
45°	1984	1825	1787
50°	1973	1788	1749
55°	1956	1736	1685
60°	1929	1658	1618
65°	1878	1559	1527
70°	1790	1448	1324
75°	1642	1239	1065
80°	1402	965	1039
85°	982	780	705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	3.2
10°-20°	206.2	9.1
20°-30°	314.4	13.9
30°-40°	382.9	16.9
40°-50°	404.2	17.8
50°-60°	374.3	16.5
60°-70°	292.6	12.9
70°-80°	168.1	7.4
80°-90°	53.0	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°	592.4	26.1
0°-40°	975.3	43.0
0°-60°	1753.7	77.3
0°-90°	2267.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2267.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	756	755	752	756	757	72
15°	732	731	727	731	732	207
25°	686	684	679	681	681	316
35°	619	616	610	608	607	387
45°	534	531	522	518	516	412
55°	432	426	417	412	410	386
65°	311	303	291	290	291	307
75°	173	166	158	143	141	183
85°	41	44	51	49	49	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.9	756.9	756.9	756.9	756.9
2.5°	757.8	757.8	754.2	758.7	759.5
5°	756.1	755.1	752.4	756.1	756.9
7.5°	752.4	751.6	748.9	752.4	753.3
10°	747.1	746.2	743.5	747.1	748.0
12.5°	740.0	739.1	735.6	739.1	740.9
15°	731.9	731.1	727.4	731.1	731.9
17.5°	723.1	721.3	717.7	721.3	721.3
20°	711.5	709.7	706.1	708.8	708.8
22.5°	699.0	697.2	693.7	695.5	696.3
25°	685.7	683.9	679.4	681.2	681.2
27.5°	671.4	668.7	664.3	665.2	665.2
30°	654.4	651.8	647.4	648.3	647.4
32.5°	637.6	634.9	630.5	628.6	628.6
35°	618.8	616.2	610.0	608.2	607.3
37.5°	599.3	595.7	589.6	586.8	585.9
40°	578.8	574.4	568.2	565.4	562.8
42.5°	558.3	553.0	545.0	541.3	541.3
45°	534.3	530.7	521.9	518.2	516.5
47.5°	510.2	506.7	496.9	493.3	492.4
50°	485.3	481.8	472.0	467.5	467.5
52.5°	459.5	455.1	444.4	439.9	439.9
55°	431.9	426.5	416.7	412.3	410.5
57.5°	402.5	399.0	386.5	382.0	380.2
60°	374.0	367.7	355.3	350.9	352.6
62.5°	343.7	336.6	324.1	320.6	323.2
65°	310.8	302.7	291.2	290.3	291.2
67.5°	276.9	269.8	260.0	258.3	256.4
70°	243.1	236.0	228.8	219.0	214.5
72.5°	208.4	201.3	195.9	179.0	173.6
75°	172.7	166.5	158.5	143.4	140.7
77.5°	138.1	132.7	121.1	117.6	120.2
80°	103.3	103.3	93.5	101.5	105.1
82.5°	70.4	70.4	75.7	82.0	80.1
85°	40.9	43.6	50.8	48.9	48.9
87.5°	17.8	22.2	22.2	22.2	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)