

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: P184375

Luminaire Tested: **ENW/ENC-24-2-LD1-34-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184375
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-LD1-34-40-CP250-UNV-EDC1
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

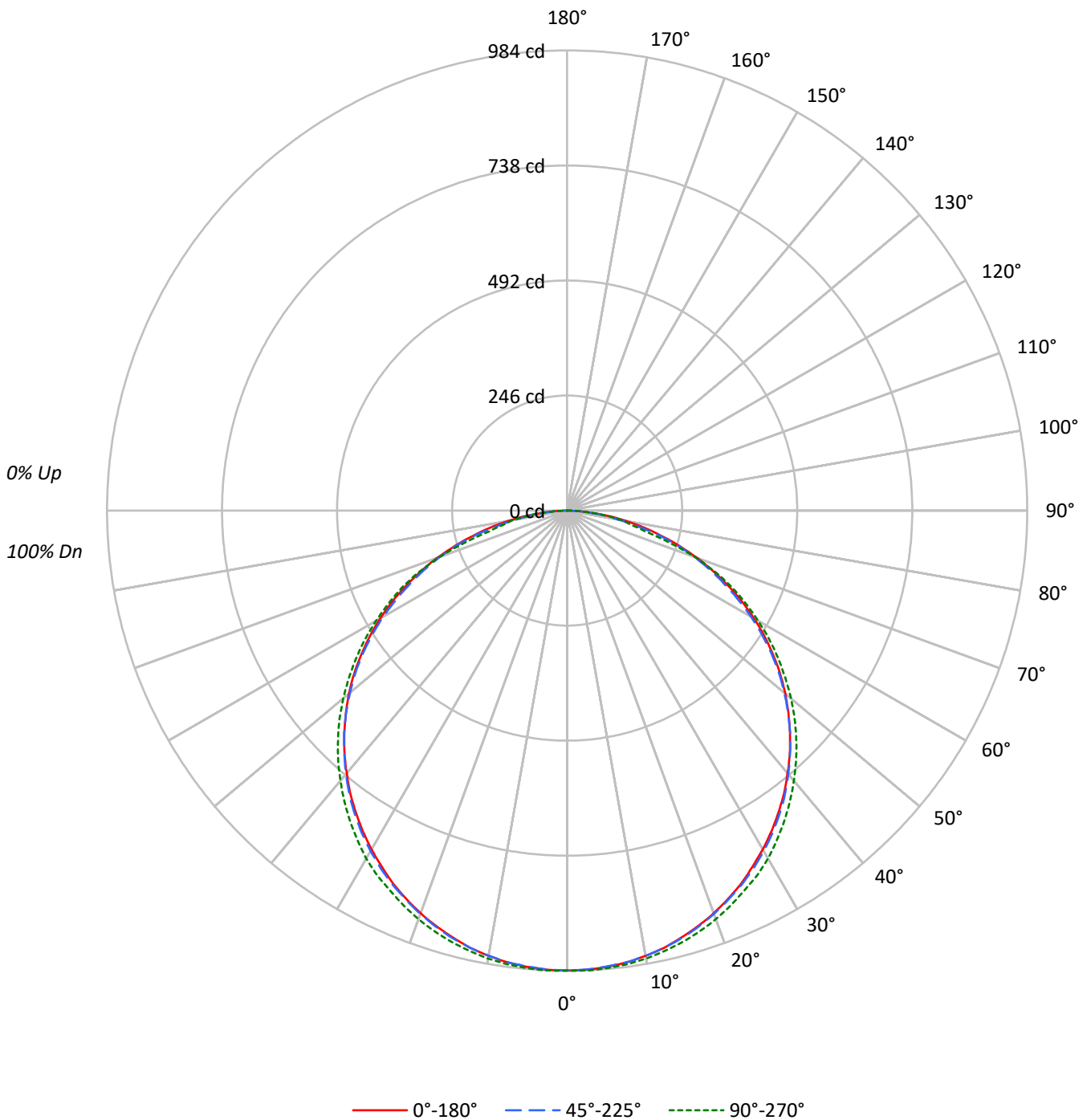
Lumens per Lamp: N/A
Luminaire Lumens: 2911.4 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 34.8
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	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2647	2647	2647
5°	2634	2627	2641
10°	2619	2609	2635
15°	2598	2588	2626
20°	2577	2563	2615
25°	2554	2538	2601
30°	2527	2510	2595
35°	2501	2479	2570
40°	2472	2440	2543
45°	2442	2397	2512
50°	2406	2342	2469
55°	2354	2273	2413
60°	2284	2179	2338
65°	2184	2048	2242
70°	2039	1909	2010
75°	1833	1665	1524
80°	1542	1217	1429
85°	941	832	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.2
10°-20°	267.7	9.2
20°-30°	408.3	14.0
30°-40°	497.6	17.1
40°-50°	523.3	18.0
50°-60°	480.6	16.5
60°-70°	372.9	12.8
70°-80°	210.1	7.2
80°-90°	57.6	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°	769.3	26.4
0°-40°	1266.9	43.5
0°-60°	2270.7	78.0
0°-90°	2911.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	979	979	979	982	982	93
15°	945	946	947	952	955	267
25°	880	880	883	891	896	406
35°	788	789	792	801	810	493
45°	674	673	674	685	693	520
55°	538	534	533	540	551	480
65°	380	376	370	379	390	375
75°	209	208	202	181	174	221
85°	48	46	49	50	51	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.6	983.6	983.6	983.6	983.6
2.5°	982.8	982.0	982.0	983.6	984.5
5°	979.4	979.4	978.6	982.0	982.0
7.5°	974.4	973.6	974.4	977.8	978.6
10°	966.8	966.0	966.8	970.2	972.7
12.5°	957.6	957.6	957.6	961.8	964.3
15°	945.0	945.8	946.7	951.7	955.1
17.5°	931.6	931.6	933.2	939.1	943.3
20°	916.4	916.4	918.1	924.8	929.9
22.5°	898.8	899.6	900.5	908.9	913.9
25°	880.3	880.3	882.8	891.2	896.3
27.5°	858.5	860.2	862.7	871.9	879.5
30°	836.6	837.5	840.8	850.1	859.3
32.5°	813.1	814.0	817.3	826.6	835.0
35°	787.9	788.8	792.1	801.4	809.8
37.5°	761.9	761.9	765.2	775.3	782.9
40°	733.3	733.3	735.8	745.9	754.3
42.5°	704.8	703.1	705.6	715.7	724.9
45°	673.7	672.8	674.5	684.6	693.0
47.5°	641.8	640.9	640.9	650.2	660.2
50°	609.0	606.5	606.5	614.9	625.0
52.5°	574.6	571.2	571.2	578.8	588.0
55°	537.6	534.2	533.4	540.1	551.0
57.5°	500.6	496.4	493.9	500.6	512.4
60°	461.2	457.8	454.4	460.3	472.1
62.5°	421.7	417.5	412.4	420.0	430.9
65°	379.7	376.3	370.4	378.8	389.8
67.5°	337.7	334.3	330.1	336.0	342.7
70°	294.8	292.3	289.8	289.0	290.6
72.5°	251.2	249.5	247.8	236.9	231.8
75°	209.2	207.5	202.4	180.6	173.9
77.5°	168.0	167.2	153.7	137.8	139.4
80°	127.7	125.2	110.0	114.2	118.4
82.5°	89.0	84.0	80.6	82.3	84.0
85°	47.9	46.2	48.7	49.6	51.2
87.5°	19.3	19.3	21.0	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)