

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: P488516

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2LO-50-120-EDD-90**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P488516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLM-12-2-INS-P12125-LD4-2LO-50-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

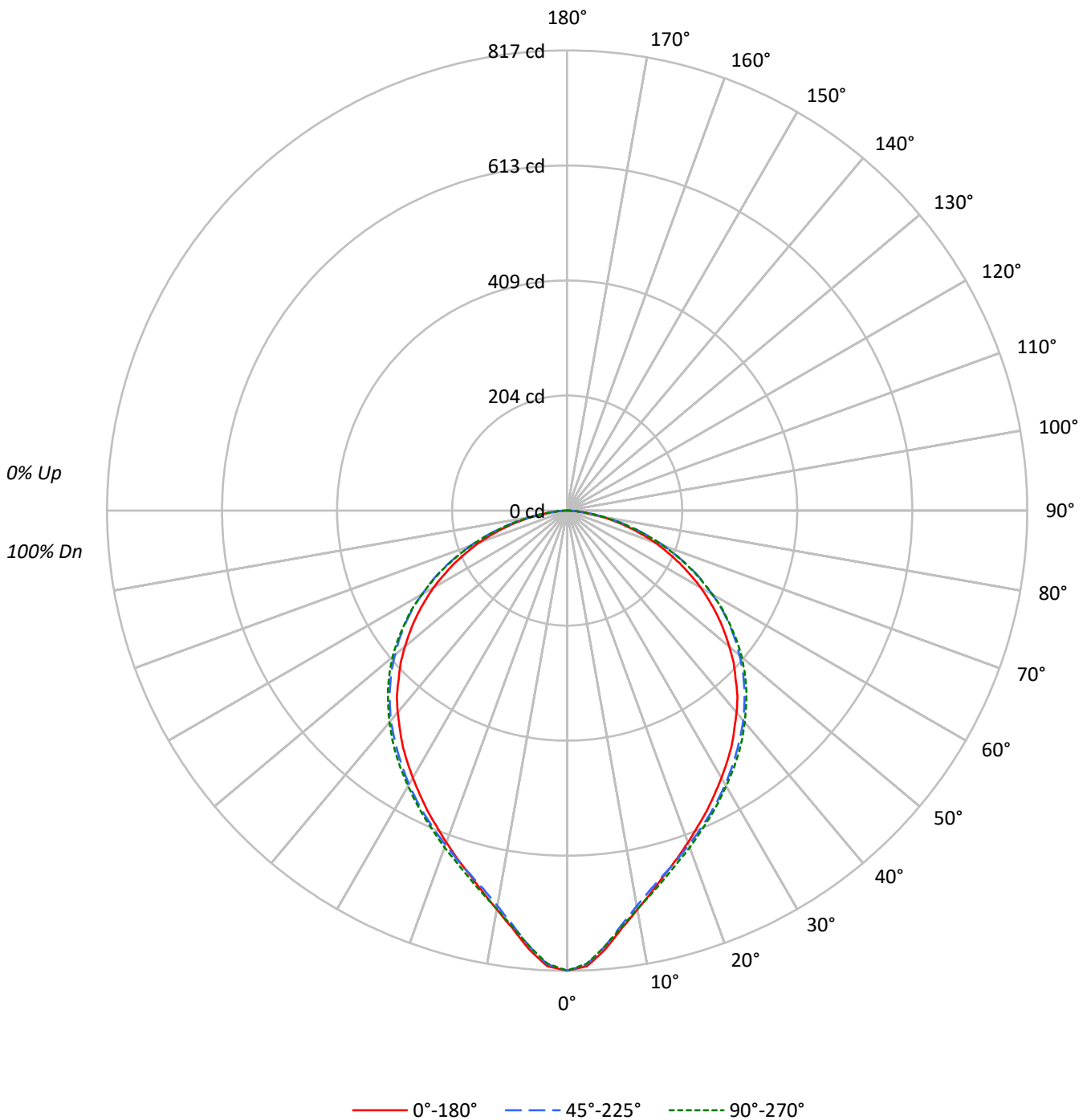
Lumens per Lamp: N/A  
Luminaire Lumens: 1897.2 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4396	4396	4396
5°	4221	4191	4191
10°	3928	3893	3923
15°	3728	3721	3757
20°	3591	3617	3645
25°	3488	3545	3565
30°	3404	3488	3509
35°	3346	3443	3478
40°	3287	3420	3448
45°	3219	3386	3427
50°	3147	3344	3388
55°	3060	3295	3309
60°	2950	3205	3199
65°	2797	3082	3061
70°	2611	2875	2839
75°	2304	2547	2520
80°	1872	2073	1974
85°	1297	1321	1272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.2	3.8
10°-20°	189.0	10.0
20°-30°	274.9	14.5
30°-40°	327.1	17.2
40°-50°	339.7	17.9
50°-60°	307.7	16.2
60°-70°	232.2	12.2
70°-80°	126.5	6.7
80°-90°	27.8	1.5
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°	536.1	28.3
0°-40°	863.3	45.5
0°-60°	1510.7	79.6
0°-90°	1897.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	781	779	776	775	776	73
15°	669	667	668	672	674	189
25°	587	592	597	602	600	271
35°	509	515	524	532	529	318
45°	423	430	445	450	450	327
55°	326	334	351	354	353	291
65°	220	226	242	242	240	217
75°	111	115	122	123	121	118
85°	21	21	21	21	21	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	816.8	816.8	816.8	816.8	816.8
2.5°	809.6	808.8	806.2	805.1	804.9
5°	781.3	779.4	775.7	775.3	775.7
7.5°	747.4	745.3	741.7	743.1	744.9
10°	718.8	713.7	712.3	714.3	717.8
12.5°	693.3	689.2	688.0	693.3	695.8
15°	669.0	667.4	667.8	672.3	674.3
17.5°	648.0	647.0	649.6	653.1	654.1
20°	627.0	629.0	631.5	635.1	636.4
22.5°	606.4	610.2	614.3	619.2	617.6
25°	587.4	592.3	597.0	601.9	600.4
27.5°	567.2	572.9	579.4	584.7	582.7
30°	547.8	554.9	561.3	567.8	564.7
32.5°	528.6	535.3	542.9	550.8	547.4
35°	509.2	515.3	524.1	532.1	529.4
37.5°	487.8	495.3	505.3	512.3	510.4
40°	467.8	474.7	486.8	491.3	490.8
42.5°	447.6	453.3	465.9	471.0	470.2
45°	422.9	430.4	444.9	449.8	450.2
47.5°	401.0	407.4	422.9	426.8	427.6
50°	375.9	383.9	399.4	404.1	404.7
52.5°	351.2	359.8	375.7	379.0	379.6
55°	326.1	333.9	351.2	353.7	352.7
57.5°	299.8	309.2	325.1	326.3	327.4
60°	274.1	282.3	297.8	299.4	297.2
62.5°	246.1	254.5	270.4	270.8	269.0
65°	219.6	225.9	242.0	241.6	240.4
67.5°	191.8	199.6	211.4	211.8	210.8
70°	165.9	171.2	182.7	182.9	180.4
72.5°	138.0	143.7	152.9	151.6	151.0
75°	110.8	115.3	122.5	123.3	121.2
77.5°	85.9	89.2	94.5	93.9	91.6
80°	60.4	63.1	66.9	66.1	63.7
82.5°	38.6	40.2	42.7	41.6	40.6
85°	21.0	21.2	21.4	21.2	20.6
87.5°	7.8	8.0	8.0	7.8	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)