

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: P488512

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2LO-35-120-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: P488512
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-35-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

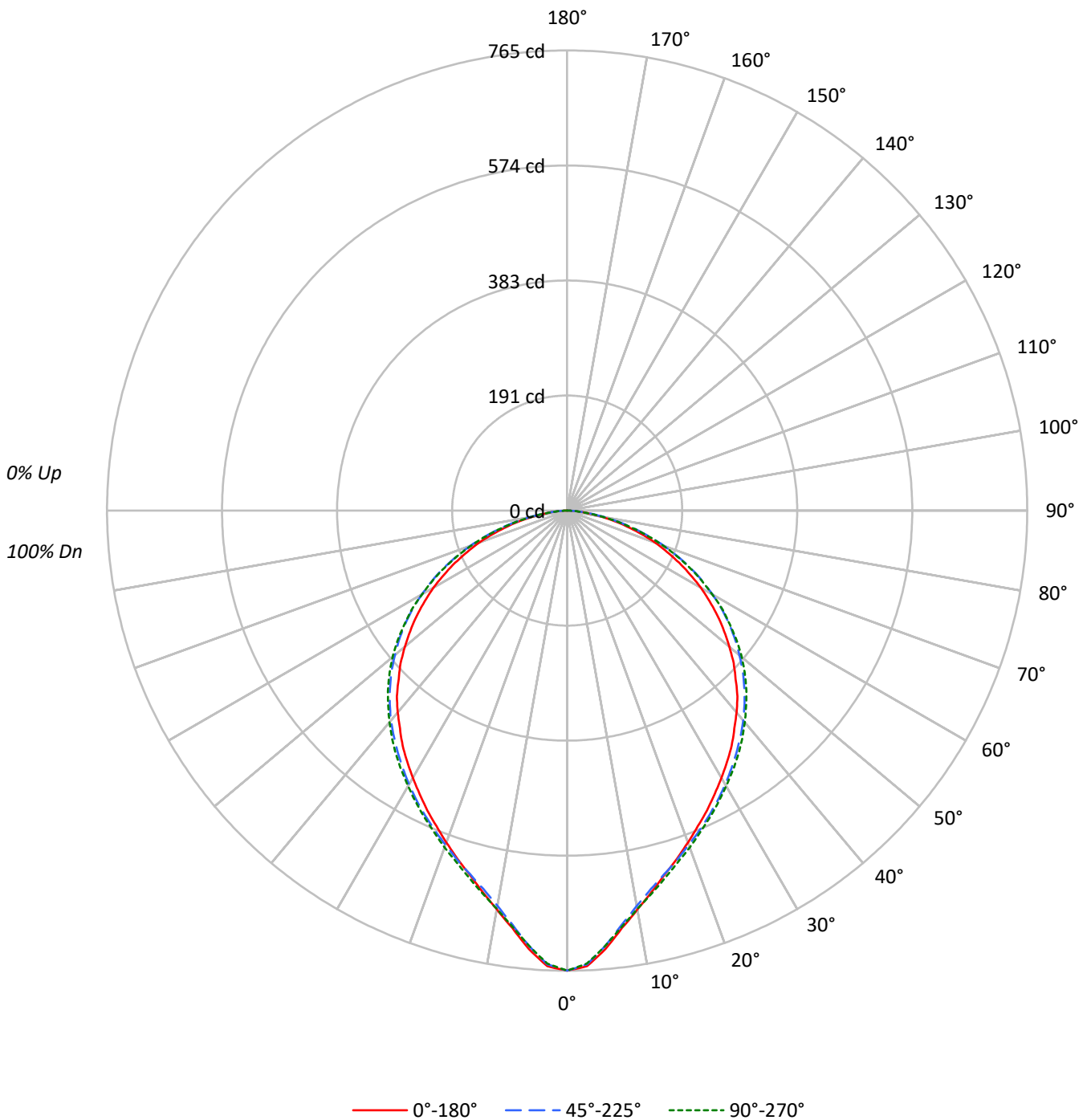
Lumens per Lamp: N/A
Luminaire Lumens: 1776.5 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4116	4116	4116
5°	3952	3924	3924
10°	3678	3645	3673
15°	3490	3484	3518
20°	3363	3387	3413
25°	3266	3320	3339
30°	3187	3266	3286
35°	3133	3225	3257
40°	3077	3202	3229
45°	3014	3171	3209
50°	2947	3131	3173
55°	2866	3086	3098
60°	2762	3001	2996
65°	2618	2886	2867
70°	2445	2691	2658
75°	2158	2385	2360
80°	1754	1943	1847
85°	1216	1241	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.8
10°-20°	177.0	10.0
20°-30°	257.4	14.5
30°-40°	306.3	17.2
40°-50°	318.1	17.9
50°-60°	288.1	16.2
60°-70°	217.4	12.2
70°-80°	118.5	6.7
80°-90°	26.0	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°	502.0	28.3
0°-40°	808.3	45.5
0°-60°	1414.6	79.6
0°-90°	1776.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	732	730	726	726	726	68
15°	626	625	625	630	631	177
25°	550	555	559	564	562	253
35°	477	482	491	498	496	298
45°	396	403	417	421	422	306
55°	305	313	329	331	330	273
65°	206	212	227	226	225	203
75°	104	108	115	115	114	111
85°	20	20	20	20	19	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.8	764.8	764.8	764.8	764.8
2.5°	758.1	757.4	754.9	753.9	753.7
5°	731.6	729.8	726.4	726.0	726.4
7.5°	699.8	697.9	694.5	695.8	697.5
10°	673.1	668.3	667.0	668.9	672.1
12.5°	649.2	645.4	644.2	649.2	651.5
15°	626.4	624.9	625.3	629.5	631.4
17.5°	606.8	605.8	608.3	611.5	612.5
20°	587.1	589.0	591.3	594.7	595.9
22.5°	567.8	571.4	575.2	579.8	578.3
25°	550.0	554.6	559.0	563.6	562.2
27.5°	531.1	536.4	542.6	547.5	545.6
30°	512.9	519.6	525.5	531.7	528.8
32.5°	495.0	501.3	508.3	515.8	512.5
35°	476.8	482.5	490.8	498.2	495.7
37.5°	456.7	463.8	473.2	479.7	478.0
40°	438.0	444.5	455.8	460.0	459.6
42.5°	419.1	424.5	436.3	441.1	440.3
45°	396.0	403.0	416.6	421.2	421.6
47.5°	375.5	381.5	396.0	399.6	400.4
50°	352.0	359.5	374.0	378.4	379.0
52.5°	328.9	336.9	351.8	354.9	355.5
55°	305.4	312.6	328.9	331.2	330.2
57.5°	280.7	289.5	304.4	305.6	306.5
60°	256.6	264.3	278.8	280.3	278.3
62.5°	230.5	238.3	253.2	253.6	251.9
65°	205.6	211.6	226.6	226.3	225.1
67.5°	179.6	186.9	198.0	198.4	197.4
70°	155.4	160.3	171.0	171.2	168.9
72.5°	129.2	134.5	143.1	142.0	141.4
75°	103.8	108.0	114.7	115.4	113.5
77.5°	80.5	83.5	88.5	87.9	85.8
80°	56.6	59.0	62.7	61.9	59.6
82.5°	36.1	37.7	39.9	39.0	38.0
85°	19.7	19.9	20.1	19.9	19.3
87.5°	7.3	7.5	7.5	7.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)