

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: P488514

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2LO-40-120-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: P488514
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-40-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

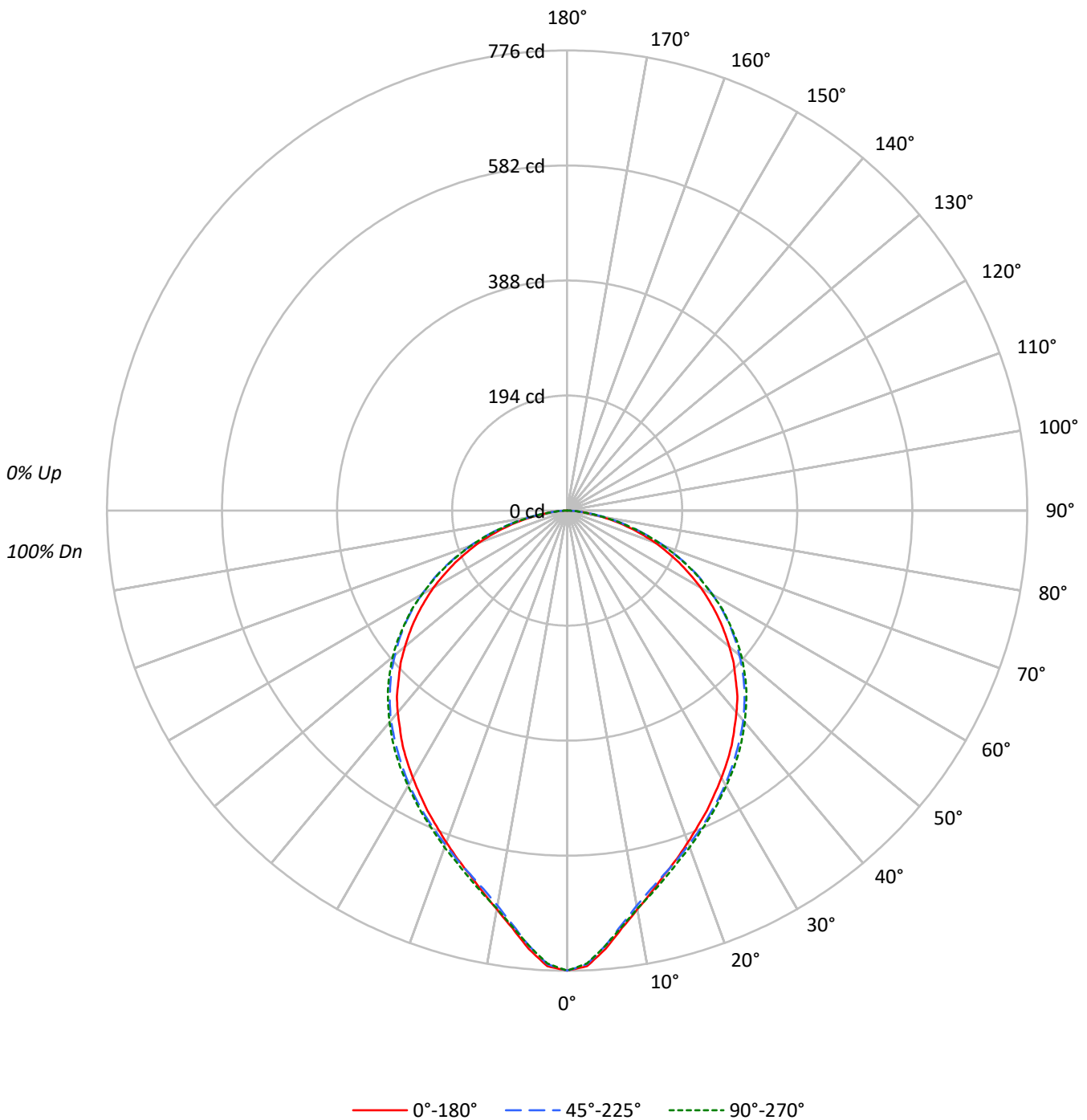
Lumens per Lamp: N/A
Luminaire Lumens: 1801.7 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4175	4175	4175
5°	4008	3980	3980
10°	3730	3697	3725
15°	3540	3534	3568
20°	3410	3435	3461
25°	3312	3366	3386
30°	3233	3312	3333
35°	3177	3270	3303
40°	3121	3248	3275
45°	3057	3216	3255
50°	2989	3176	3218
55°	2906	3130	3142
60°	2802	3044	3038
65°	2655	2928	2907
70°	2480	2730	2696
75°	2188	2418	2393
80°	1779	1971	1875
85°	1235	1254	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.8
10°-20°	179.5	10.0
20°-30°	261.1	14.5
30°-40°	310.7	17.2
40°-50°	322.6	17.9
50°-60°	292.2	16.2
60°-70°	220.5	12.2
70°-80°	120.2	6.7
80°-90°	26.4	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°	509.1	28.3
0°-40°	819.8	45.5
0°-60°	1434.6	79.6
0°-90°	1801.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1801.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	742	740	737	736	737	69
15°	635	634	634	638	640	179
25°	558	562	567	572	570	257
35°	484	489	498	505	503	302
45°	402	409	422	427	428	310
55°	310	317	334	336	335	277
65°	208	215	230	230	228	206
75°	105	110	116	117	115	112
85°	20	20	20	20	20	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.7	775.7	775.7	775.7	775.7
2.5°	768.9	768.1	765.6	764.6	764.4
5°	741.9	740.2	736.7	736.3	736.7
7.5°	709.8	707.8	704.3	705.7	707.4
10°	682.6	677.8	676.4	678.4	681.7
12.5°	658.4	654.5	653.3	658.4	660.7
15°	635.3	633.8	634.2	638.4	640.4
17.5°	615.4	614.4	616.9	620.2	621.2
20°	595.4	597.4	599.7	603.2	604.3
22.5°	575.8	579.5	583.4	588.0	586.5
25°	557.8	562.5	566.9	571.6	570.2
27.5°	538.6	544.0	550.2	555.3	553.3
30°	520.2	527.0	533.0	539.2	536.3
32.5°	502.0	508.4	515.6	523.1	519.8
35°	483.6	489.4	497.7	505.3	502.8
37.5°	463.2	470.4	479.9	486.5	484.7
40°	444.2	450.8	462.3	466.5	466.1
42.5°	425.0	430.5	442.5	447.3	446.6
45°	401.6	408.8	422.5	427.2	427.6
47.5°	380.9	386.9	401.6	405.3	406.0
50°	357.0	364.6	379.3	383.8	384.3
52.5°	333.6	341.7	356.8	359.9	360.5
55°	309.7	317.1	333.6	335.9	334.9
57.5°	284.7	293.6	308.8	309.9	310.9
60°	260.3	268.0	282.8	284.3	282.2
62.5°	233.7	241.7	256.8	257.2	255.4
65°	208.5	214.6	229.9	229.5	228.3
67.5°	182.2	189.5	200.8	201.2	200.2
70°	157.6	162.6	173.5	173.7	171.3
72.5°	131.0	136.4	145.2	144.0	143.4
75°	105.2	109.5	116.3	117.1	115.1
77.5°	81.6	84.7	89.7	89.2	87.0
80°	57.4	59.9	63.6	62.8	60.5
82.5°	36.6	38.2	40.5	39.5	38.6
85°	20.0	20.1	20.3	20.1	19.6
87.5°	7.4	7.6	7.6	7.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)