

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: P488517

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

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: P488517
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
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

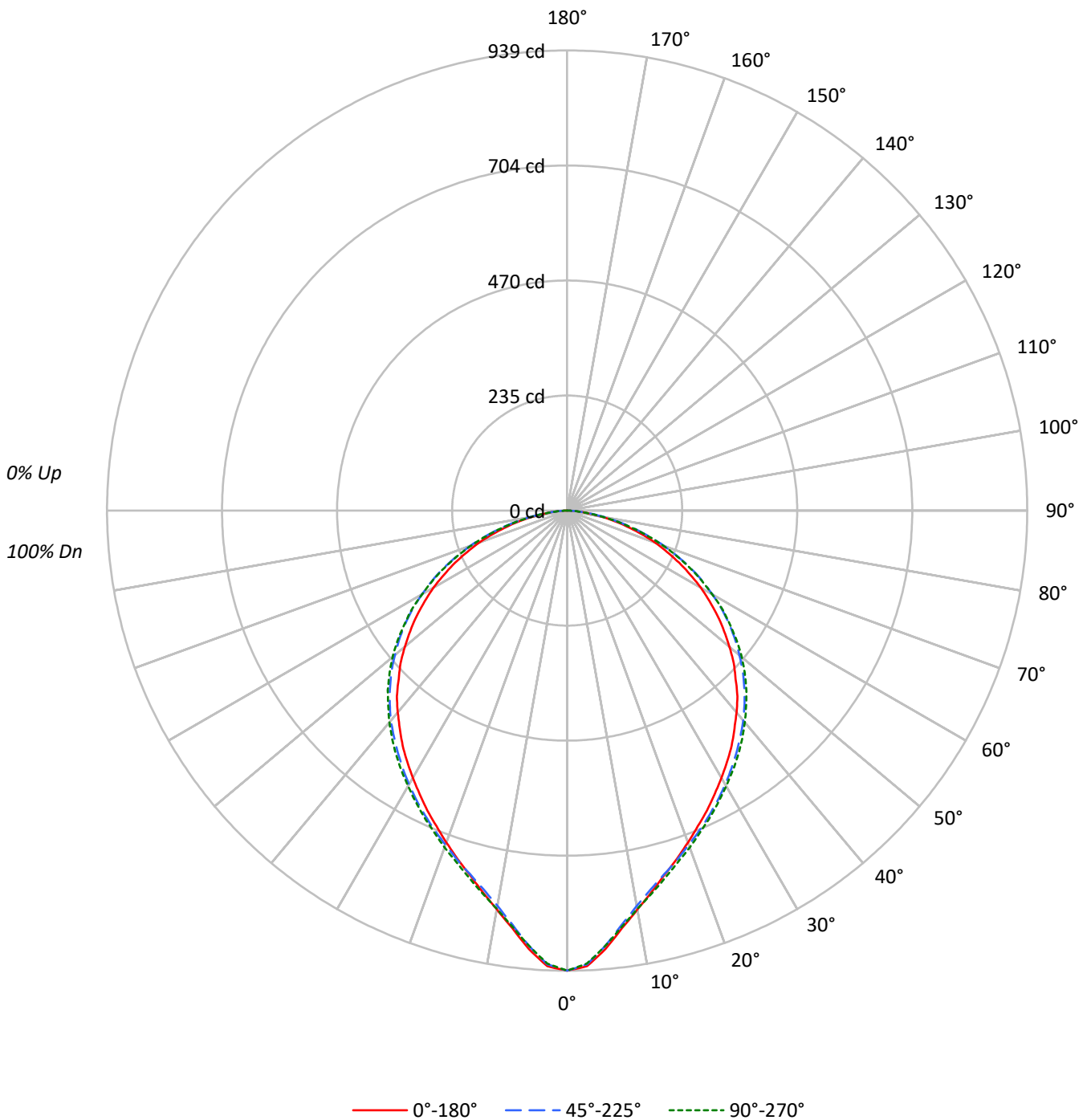
Lumens per Lamp: N/A
Luminaire Lumens: 2180.7 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (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	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°	5053	5053	5053
5°	4851	4817	4817
10°	4515	4474	4509
15°	4285	4277	4319
20°	4128	4157	4189
25°	4010	4075	4099
30°	3913	4009	4034
35°	3846	3958	3998
40°	3778	3931	3964
45°	3700	3892	3939
50°	3618	3844	3895
55°	3518	3788	3804
60°	3391	3684	3677
65°	3214	3543	3519
70°	3001	3305	3264
75°	2649	2928	2897
80°	2151	2386	2269
85°	1494	1519	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.8
10°-20°	217.3	10.0
20°-30°	316.0	14.5
30°-40°	376.0	17.2
40°-50°	390.4	17.9
50°-60°	353.7	16.2
60°-70°	266.9	12.2
70°-80°	145.4	6.7
80°-90°	32.0	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°	616.2	28.3
0°-40°	992.2	45.5
0°-60°	1736.4	79.6
0°-90°	2180.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2180.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	898	896	892	891	892	83
15°	769	767	768	773	775	217
25°	675	681	686	692	690	311
35°	585	592	602	612	608	366
45°	486	495	511	517	518	376
55°	375	384	404	407	405	335
65°	252	260	278	278	276	250
75°	127	132	141	142	139	136
85°	24	24	25	24	24	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.8	938.8	938.8	938.8	938.8
2.5°	930.6	929.7	926.6	925.4	925.2
5°	898.0	895.9	891.7	891.2	891.7
7.5°	859.1	856.7	852.5	854.1	856.3
10°	826.2	820.4	818.7	821.1	825.0
12.5°	796.9	792.2	790.8	796.9	799.7
15°	769.0	767.1	767.6	772.7	775.1
17.5°	744.8	743.6	746.7	750.7	751.9
20°	720.7	723.0	725.8	730.0	731.4
22.5°	697.0	701.4	706.1	711.7	709.9
25°	675.2	680.8	686.2	691.8	690.2
27.5°	651.9	658.5	666.0	672.1	669.7
30°	629.6	637.8	645.1	652.6	649.1
32.5°	607.6	615.3	624.0	633.2	629.2
35°	585.3	592.3	602.4	611.6	608.5
37.5°	560.7	569.3	580.8	588.8	586.7
40°	537.7	545.7	559.5	564.7	564.2
42.5°	514.4	521.0	535.6	541.4	540.5
45°	486.1	494.7	511.4	517.0	517.5
47.5°	461.0	468.2	486.1	490.5	491.5
50°	432.1	441.3	459.1	464.5	465.2
52.5°	403.7	413.6	431.9	435.6	436.3
55°	374.9	383.8	403.7	406.6	405.4
57.5°	344.6	355.4	373.7	375.1	376.3
60°	315.0	324.4	342.3	344.1	341.6
62.5°	282.9	292.5	310.8	311.3	309.2
65°	252.4	259.7	278.2	277.8	276.3
67.5°	220.5	229.4	243.0	243.5	242.3
70°	190.7	196.8	210.0	210.2	207.4
72.5°	158.6	165.1	175.7	174.3	173.6
75°	127.4	132.5	140.8	141.7	139.3
77.5°	98.8	102.5	108.6	107.9	105.3
80°	69.4	72.5	77.0	76.0	73.2
82.5°	44.3	46.2	49.0	47.9	46.7
85°	24.2	24.4	24.6	24.4	23.7
87.5°	8.9	9.2	9.2	8.9	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)