

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: P488822

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-30-120-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: P488822
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-12-4-INS-P12125-LD4-3HI-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

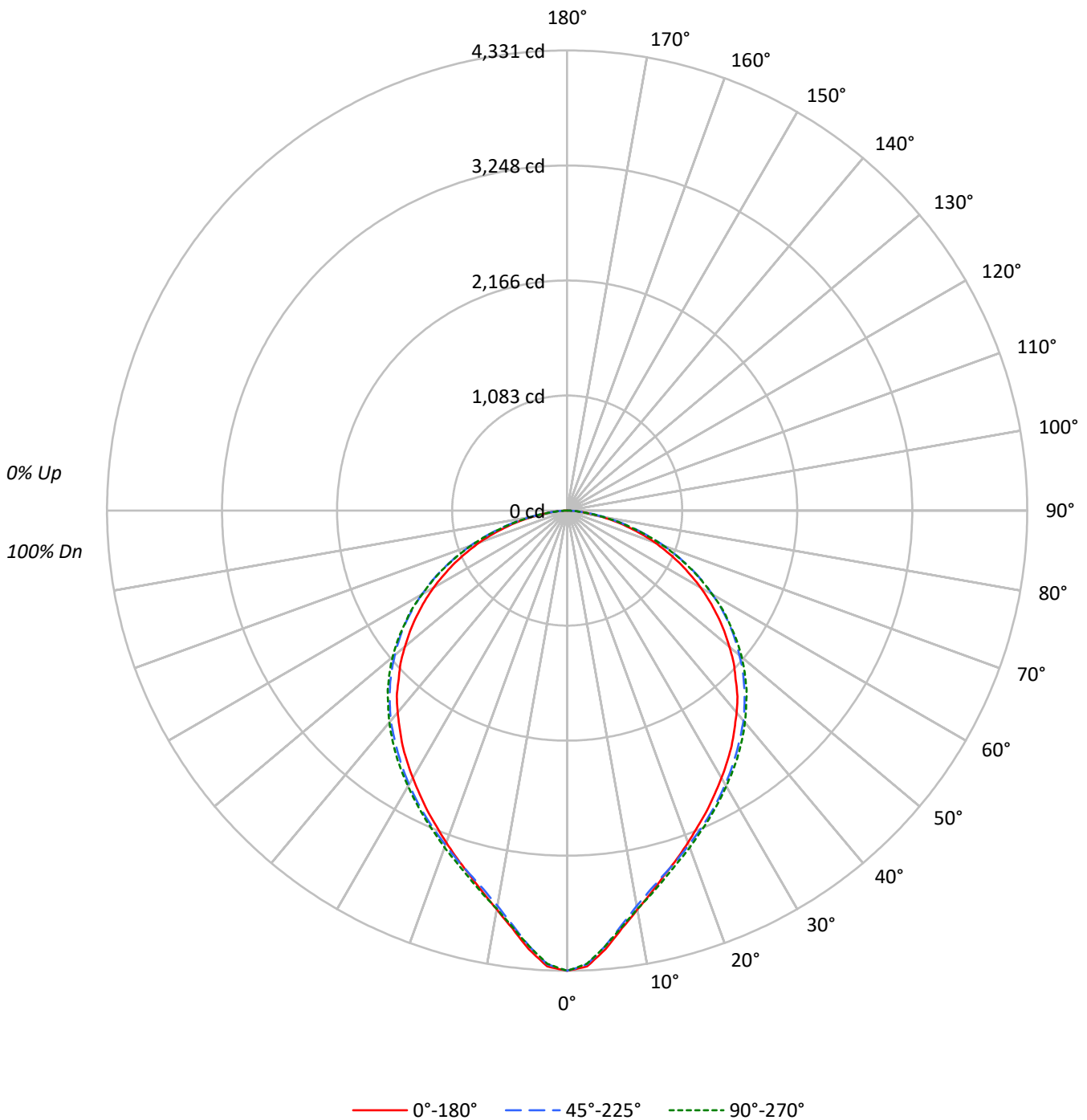
Lumens per Lamp: N/A
Luminaire Lumens: 10061.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	11656	11656	11656
5°	11192	11112	11112
10°	10416	10321	10401
15°	9884	9866	9962
20°	9521	9590	9664
25°	9249	9400	9454
30°	9026	9248	9306
35°	8871	9131	9223
40°	8714	9068	9144
45°	8534	8979	9086
50°	8346	8867	8985
55°	8114	8739	8775
60°	7823	8499	8481
65°	7415	8173	8118
70°	6923	7622	7528
75°	6110	6752	6684
80°	4964	5501	5232
85°	3443	3507	3375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	3.8
10°-20°	1002.5	10.0
20°-30°	1457.9	14.5
30°-40°	1734.8	17.2
40°-50°	1801.3	17.9
50°-60°	1631.9	16.2
60°-70°	1231.4	12.2
70°-80°	671.0	6.7
80°-90°	147.4	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°	2843.1	28.3
0°-40°	4577.9	45.5
0°-60°	8011.2	79.6
0°-90°	10061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4331	4331	4331	4331	4331	
5°	4143	4133	4114	4112	4114	385
15°	3548	3539	3541	3565	3576	1001
25°	3115	3141	3166	3192	3184	1435
35°	2700	2733	2779	2822	2808	1688
45°	2243	2283	2359	2386	2388	1733
55°	1730	1771	1863	1876	1870	1544
65°	1164	1198	1284	1282	1275	1151
75°	588	612	649	654	643	626
85°	112	112	114	112	109	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4331.4	4331.4	4331.4	4331.4	4331.4
2.5°	4293.5	4289.2	4275.1	4269.7	4268.6
5°	4143.1	4133.3	4113.8	4111.7	4113.8
7.5°	3963.4	3952.6	3933.2	3940.7	3950.5
10°	3811.9	3784.9	3777.2	3788.1	3806.5
12.5°	3676.6	3654.9	3648.4	3676.6	3689.6
15°	3547.8	3539.1	3541.3	3565.2	3575.9
17.5°	3436.4	3430.9	3445.0	3463.4	3468.8
20°	3324.9	3335.7	3348.7	3368.2	3374.6
22.5°	3215.6	3236.1	3257.8	3283.7	3275.1
25°	3114.9	3140.9	3165.8	3191.7	3184.2
27.5°	3007.7	3038.0	3072.7	3100.8	3090.0
30°	2904.9	2942.8	2976.4	3011.0	2994.8
32.5°	2803.2	2838.9	2878.9	2921.2	2902.8
35°	2700.4	2732.8	2779.4	2821.6	2807.5
37.5°	2586.7	2626.8	2679.8	2716.6	2706.9
40°	2480.7	2517.5	2581.3	2605.1	2602.9
42.5°	2373.5	2403.9	2470.9	2498.0	2493.6
45°	2242.6	2282.6	2359.4	2385.5	2387.6
47.5°	2126.7	2160.3	2242.6	2263.1	2267.4
50°	1993.6	2035.9	2118.1	2142.9	2146.3
52.5°	1862.6	1908.1	1992.5	2009.8	2013.1
55°	1729.5	1770.6	1862.6	1875.7	1870.3
57.5°	1589.9	1639.7	1724.2	1730.6	1736.0
60°	1453.5	1496.8	1579.1	1587.7	1575.9
62.5°	1305.3	1349.6	1434.1	1436.2	1426.4
65°	1164.5	1198.1	1283.6	1281.5	1274.9
67.5°	1017.3	1058.5	1121.3	1123.4	1118.1
70°	879.9	908.0	968.7	969.8	956.8
72.5°	731.7	761.9	810.6	804.2	800.9
75°	587.7	611.5	649.4	653.7	642.9
77.5°	455.7	473.0	501.1	497.9	485.9
80°	320.3	334.4	355.0	350.7	337.6
82.5°	204.5	213.3	226.2	220.8	215.4
85°	111.5	112.5	113.6	112.5	109.3
87.5°	41.1	42.2	42.2	41.1	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)