

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: P488620

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-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: P488620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-3LO-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

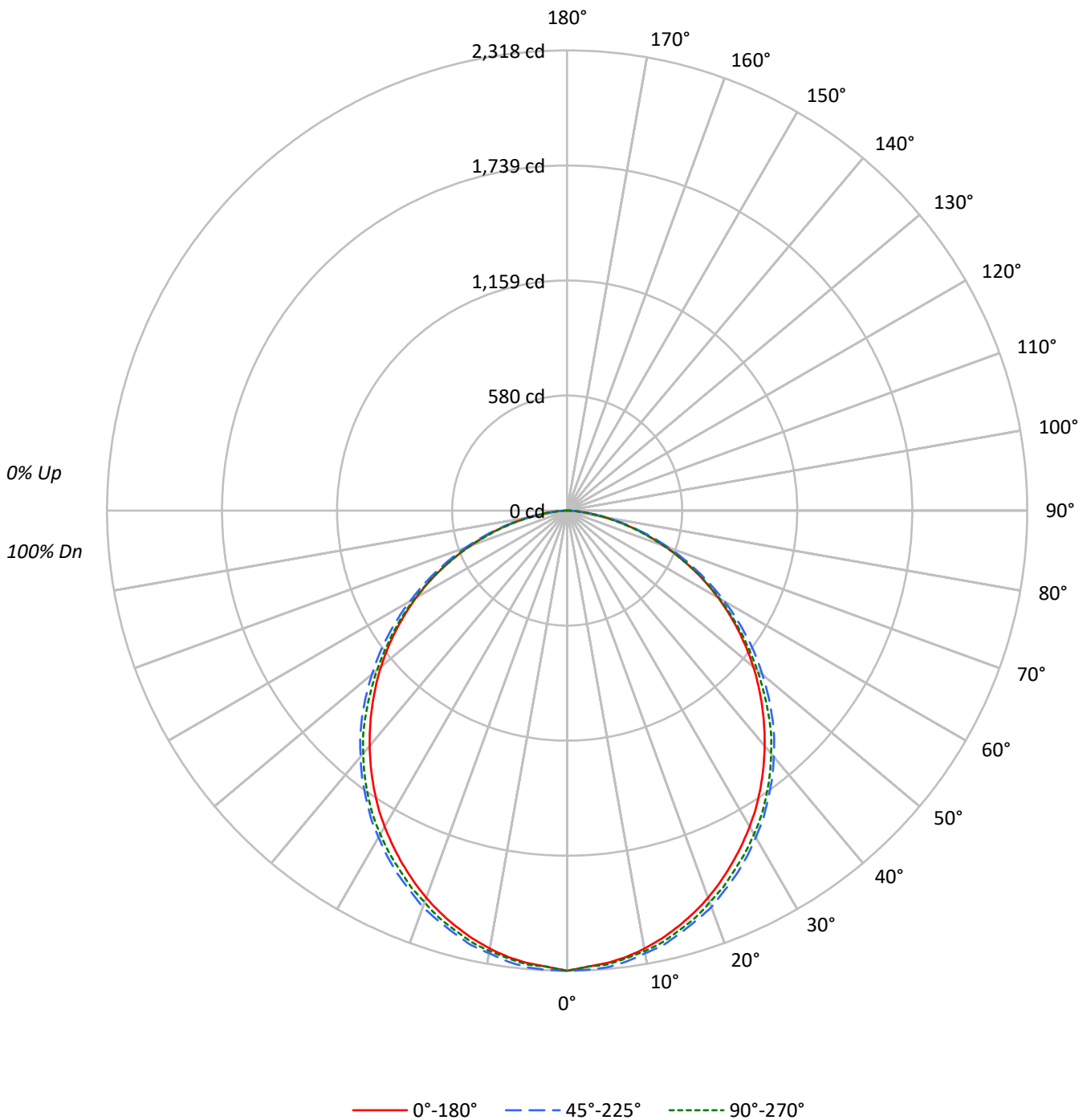
Lumens per Lamp: N/A
Luminaire Lumens: 6095.2 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6239	6239	6239
5°	6181	6239	6200
10°	6124	6186	6157
15°	6040	6137	6094
20°	5945	6086	6013
25°	5829	5998	5929
30°	5711	5905	5851
35°	5582	5804	5750
40°	5437	5688	5616
45°	5285	5551	5447
50°	5126	5374	5233
55°	4940	5171	5012
60°	4730	4926	4774
65°	4457	4628	4460
70°	4102	4267	4056
75°	3611	3774	3556
80°	2935	3062	2901
85°	2044	2177	2124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	3.6
10°-20°	618.7	10.2
20°-30°	922.8	15.1
30°-40°	1093.6	17.9
40°-50°	1106.5	18.2
50°-60°	966.4	15.9
60°-70°	706.2	11.6
70°-80°	375.7	6.2
80°-90°	86.8	1.4
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°	1759.9	28.9
0°-40°	2853.5	46.8
0°-60°	4926.4	80.8
0°-90°	6095.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6095.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2318	2318	2318	2318	2318	
5°	2288	2293	2310	2315	2295	217
15°	2168	2182	2203	2216	2188	611
25°	1963	1987	2020	2028	1997	904
35°	1699	1726	1767	1779	1750	1063
45°	1389	1413	1459	1460	1431	1071
55°	1053	1074	1102	1086	1068	941
65°	700	714	727	712	700	693
75°	347	355	363	350	342	369
85°	66	67	70	71	69	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2318.4	2318.4	2318.4	2318.4	2318.4
2.5°	2300.3	2307.8	2315.5	2318.9	2300.0
5°	2288.2	2292.6	2309.7	2315.0	2295.4
7.5°	2268.4	2274.9	2291.6	2294.0	2275.2
10°	2241.3	2252.9	2264.0	2276.1	2253.2
12.5°	2206.8	2222.5	2241.3	2243.5	2226.1
15°	2167.9	2182.4	2202.9	2216.2	2187.5
17.5°	2124.4	2138.4	2165.0	2167.4	2150.0
20°	2075.9	2093.3	2125.2	2130.7	2099.6
22.5°	2020.8	2044.2	2070.8	2076.1	2053.2
25°	1963.1	1987.2	2020.1	2027.6	1996.9
27.5°	1902.7	1925.9	1962.8	1968.1	1942.3
30°	1838.0	1859.7	1900.3	1909.2	1882.9
32.5°	1772.3	1794.0	1838.9	1846.4	1820.8
35°	1699.3	1725.9	1766.7	1779.0	1750.3
37.5°	1624.9	1650.8	1697.1	1708.2	1677.3
40°	1547.9	1573.5	1619.1	1628.3	1598.6
42.5°	1469.1	1494.7	1543.5	1545.0	1520.3
45°	1388.7	1413.3	1458.7	1459.9	1431.2
47.5°	1307.0	1331.9	1372.5	1367.9	1340.8
50°	1224.4	1248.1	1283.6	1274.4	1250.0
52.5°	1138.9	1161.9	1195.4	1180.5	1157.5
55°	1052.9	1074.2	1102.2	1086.3	1068.4
57.5°	966.2	987.7	1009.2	993.0	977.6
60°	878.8	897.6	915.2	898.8	887.0
62.5°	789.9	806.1	821.3	805.6	794.5
65°	700.0	714.3	726.8	712.3	700.5
67.5°	610.6	622.7	634.3	619.3	607.0
70°	521.3	531.7	542.3	526.8	515.5
72.5°	433.1	442.3	451.7	436.7	426.8
75°	347.3	355.3	363.0	349.8	342.0
77.5°	265.5	272.2	277.5	269.1	261.6
80°	189.4	194.4	197.6	194.2	187.2
82.5°	121.7	125.4	127.1	126.8	122.2
85°	66.2	67.4	70.5	71.3	68.8
87.5°	25.6	27.3	28.0	30.2	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)