

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: P489778

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-20-120-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: P489778
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-24-4-INS-P12125-LD4-1STD-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

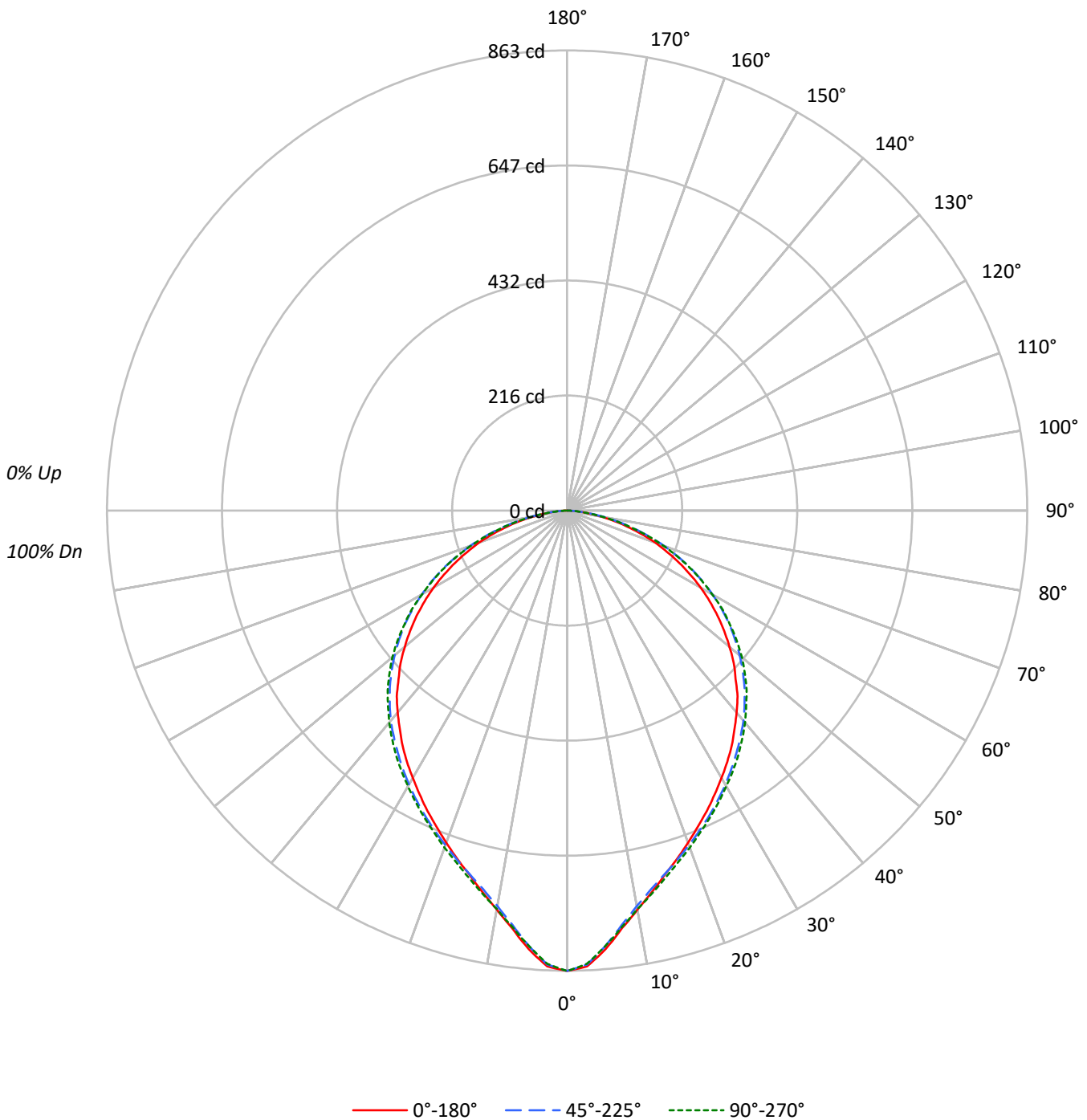
Lumens per Lamp: N/A
Luminaire Lumens: 2005.5 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1162	1162	1162
5°	1115	1108	1108
10°	1038	1029	1037
15°	985	983	993
20°	949	956	963
25°	922	937	942
30°	900	922	928
35°	884	910	919
40°	869	904	911
45°	851	895	906
50°	832	884	895
55°	809	871	875
60°	780	847	845
65°	739	815	809
70°	690	760	750
75°	609	673	666
80°	495	549	521
85°	343	349	337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.8
10°-20°	199.8	10.0
20°-30°	290.6	14.5
30°-40°	345.8	17.2
40°-50°	359.1	17.9
50°-60°	325.3	16.2
60°-70°	245.5	12.2
70°-80°	133.8	6.7
80°-90°	29.4	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°	566.7	28.3
0°-40°	912.5	45.5
0°-60°	1596.9	79.6
0°-90°	2005.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2005.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	826	824	820	820	820	77
15°	707	706	706	711	713	200
25°	621	626	631	636	635	286
35°	538	545	554	562	560	337
45°	447	455	470	476	476	346
55°	345	353	371	374	373	308
65°	232	239	256	255	254	229
75°	117	122	130	130	128	125
85°	22	22	23	22	22	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.4	863.4	863.4	863.4	863.4
2.5°	855.8	855.0	852.2	851.1	850.9
5°	825.9	823.9	820.0	819.6	820.0
7.5°	790.0	787.9	784.0	785.5	787.5
10°	759.8	754.5	752.9	755.1	758.8
12.5°	732.9	728.6	727.3	732.9	735.5
15°	707.2	705.5	705.9	710.7	712.8
17.5°	685.0	683.9	686.7	690.4	691.5
20°	662.8	664.9	667.5	671.4	672.7
22.5°	641.0	645.1	649.4	654.6	652.8
25°	620.9	626.1	631.0	636.2	634.7
27.5°	599.5	605.6	612.5	618.1	615.9
30°	579.0	586.6	593.3	600.2	597.0
32.5°	558.8	565.9	573.9	582.3	578.6
35°	538.3	544.7	554.0	562.4	559.6
37.5°	515.6	523.6	534.2	541.5	539.6
40°	494.5	501.8	514.5	519.3	518.9
42.5°	473.1	479.2	492.5	497.9	497.1
45°	447.0	455.0	470.3	475.5	475.9
47.5°	423.9	430.6	447.0	451.1	452.0
50°	397.4	405.8	422.2	427.2	427.8
52.5°	371.3	380.3	397.2	400.6	401.3
55°	344.7	352.9	371.3	373.9	372.8
57.5°	316.9	326.8	343.7	345.0	346.0
60°	289.7	298.4	314.8	316.5	314.1
62.5°	260.2	269.0	285.9	286.3	284.3
65°	232.1	238.8	255.9	255.4	254.1
67.5°	202.8	211.0	223.5	223.9	222.9
70°	175.4	181.0	193.1	193.3	190.7
72.5°	145.8	151.9	161.6	160.3	159.7
75°	117.1	121.9	129.5	130.3	128.2
77.5°	90.8	94.3	99.9	99.2	96.9
80°	63.9	66.7	70.8	69.9	67.3
82.5°	40.8	42.5	45.1	44.0	42.9
85°	22.2	22.4	22.6	22.4	21.8
87.5°	8.2	8.4	8.4	8.2	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)