

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: P489832

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3HI-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: P489832
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-LD4-3HI-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

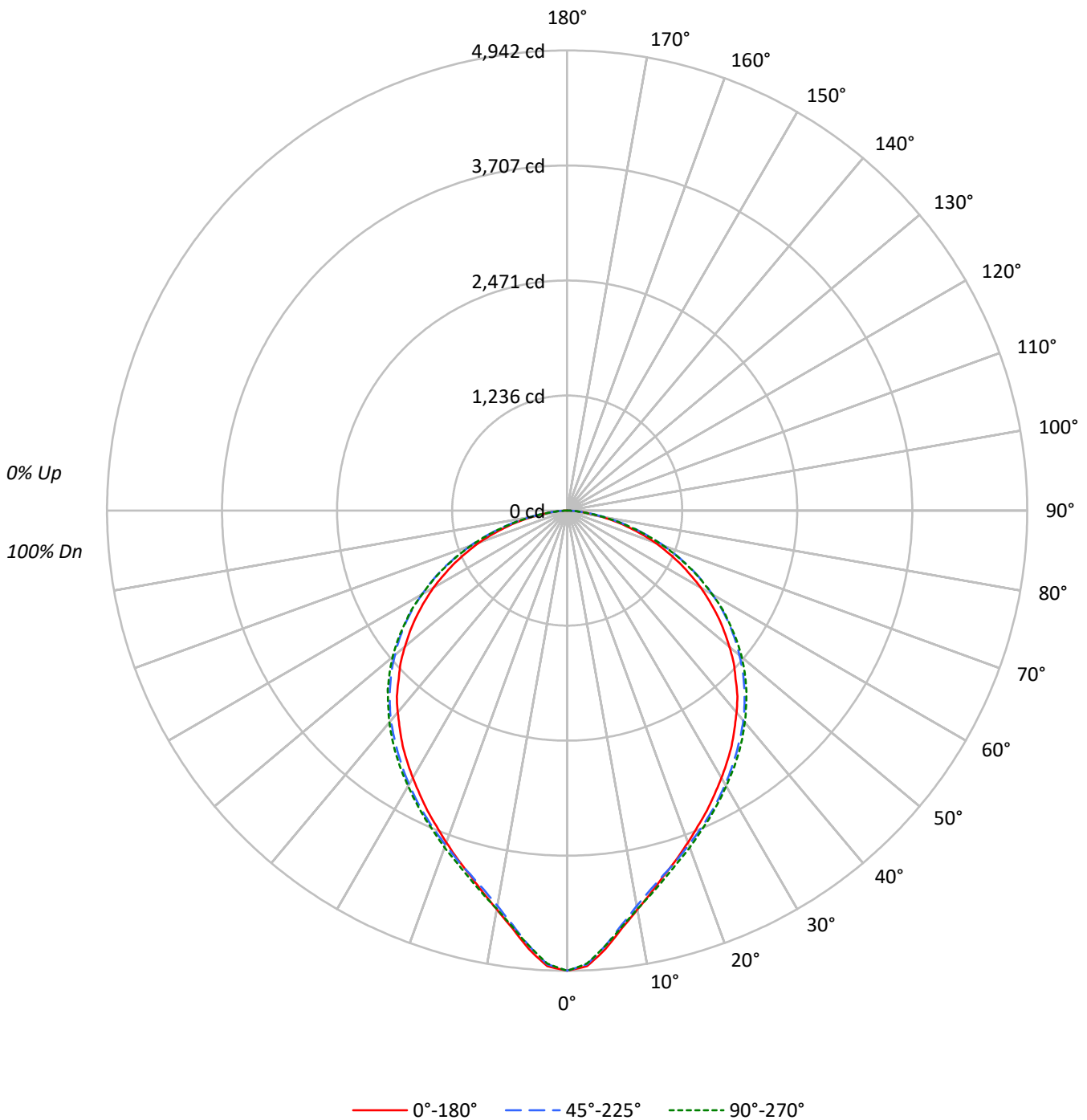
Lumens per Lamp: N/A
Luminaire Lumens: 11478.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6649	6649	6649
5°	6384	6339	6339
10°	5942	5887	5933
15°	5638	5628	5683
20°	5431	5470	5512
25°	5276	5362	5393
30°	5149	5276	5308
35°	5060	5208	5261
40°	4971	5172	5216
45°	4868	5122	5183
50°	4761	5058	5125
55°	4628	4985	5005
60°	4462	4848	4838
65°	4230	4662	4631
70°	3949	4347	4294
75°	3486	3852	3813
80°	2832	3138	2985
85°	1964	2001	1925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.6	3.8
10°-20°	1143.7	10.0
20°-30°	1663.2	14.5
30°-40°	1979.1	17.2
40°-50°	2055.0	17.9
50°-60°	1861.8	16.2
60°-70°	1404.9	12.2
70°-80°	765.5	6.7
80°-90°	168.2	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°	3243.5	28.3
0°-40°	5222.7	45.5
0°-60°	9139.5	79.6
0°-90°	11478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4942	4942	4942	4942	4942	
5°	4727	4716	4693	4691	4693	439
15°	4047	4038	4040	4067	4080	1142
25°	3554	3583	3612	3641	3633	1638
35°	3081	3118	3171	3219	3203	1926
45°	2558	2604	2692	2721	2724	1978
55°	1973	2020	2125	2140	2134	1762
65°	1328	1367	1464	1462	1454	1313
75°	670	698	741	746	733	714
85°	127	128	130	128	125	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4941.5	4941.5	4941.5	4941.5	4941.5
2.5°	4898.2	4893.3	4877.2	4871.0	4869.8
5°	4726.6	4715.5	4693.2	4690.8	4693.2
7.5°	4521.6	4509.3	4487.1	4495.7	4506.8
10°	4348.8	4317.9	4309.2	4321.6	4342.6
12.5°	4194.4	4169.7	4162.3	4194.4	4209.3
15°	4047.4	4037.6	4040.1	4067.3	4079.6
17.5°	3920.3	3914.1	3930.2	3951.2	3957.4
20°	3793.1	3805.5	3820.3	3842.6	3849.9
22.5°	3668.4	3691.8	3716.6	3746.2	3736.3
25°	3553.6	3583.2	3611.7	3641.3	3632.7
27.5°	3431.3	3465.9	3505.4	3537.6	3525.2
30°	3314.0	3357.2	3395.6	3435.0	3416.5
32.5°	3198.0	3238.8	3284.4	3332.6	3311.6
35°	3080.7	3117.7	3170.8	3219.0	3203.0
37.5°	2951.1	2996.7	3057.2	3099.2	3088.1
40°	2830.0	2872.0	2944.9	2972.1	2969.5
42.5°	2707.8	2742.4	2818.9	2849.8	2844.8
45°	2558.4	2604.1	2691.7	2721.4	2723.8
47.5°	2426.3	2464.6	2558.4	2581.8	2586.8
50°	2274.4	2322.6	2416.4	2444.8	2448.5
52.5°	2125.0	2176.8	2273.1	2292.9	2296.7
55°	1973.1	2020.0	2125.0	2139.9	2133.7
57.5°	1813.9	1870.6	1967.0	1974.3	1980.5
60°	1658.2	1707.6	1801.5	1811.3	1797.8
62.5°	1489.1	1539.7	1636.1	1638.5	1627.4
65°	1328.5	1366.8	1464.4	1461.9	1454.5
67.5°	1160.6	1207.5	1279.2	1281.6	1275.5
70°	1003.8	1035.9	1105.1	1106.3	1091.5
72.5°	834.7	869.3	924.8	917.4	913.8
75°	670.5	697.6	740.9	745.8	733.4
77.5°	519.9	539.6	571.7	568.0	554.4
80°	365.5	381.5	405.0	400.1	385.2
82.5°	233.3	243.3	258.1	251.9	245.7
85°	127.2	128.4	129.6	128.4	124.7
87.5°	46.9	48.2	48.2	46.9	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)