

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: P489369

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-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: P489369  
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-24-2-INS-P12125-LD4-5HI-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

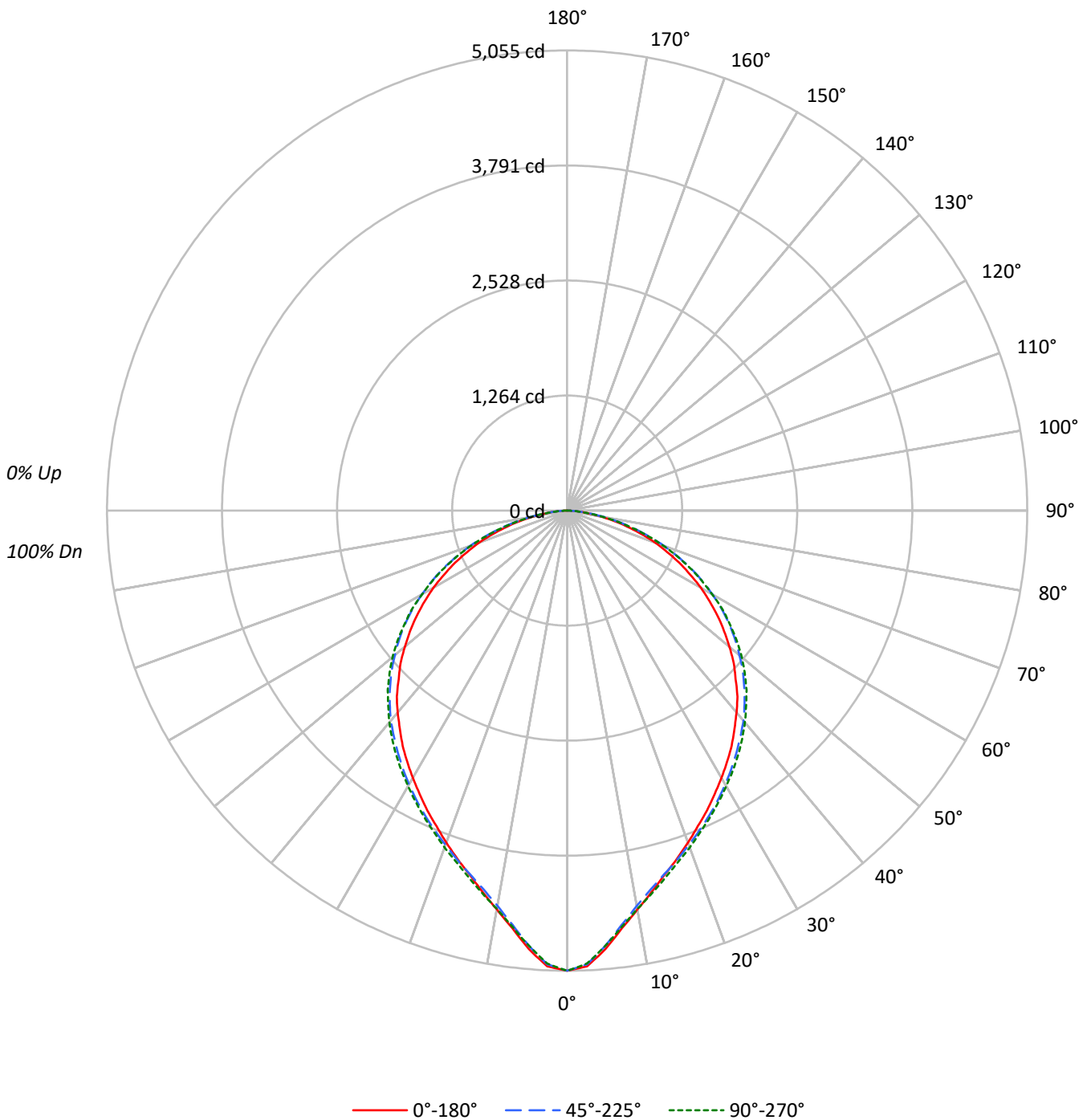
Lumens per Lamp: N/A  
Luminaire Lumens: 11740.9 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 108  
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°	13602	13602	13602
5°	13060	12968	12968
10°	12155	12045	12138
15°	11534	11513	11626
20°	11111	11191	11277
25°	10793	10969	11033
30°	10533	10792	10859
35°	10352	10655	10763
40°	10169	10582	10671
45°	9959	10478	10603
50°	9740	10348	10485
55°	9469	10198	10239
60°	9129	9917	9897
65°	8653	9538	9473
70°	8079	8894	8785
75°	7130	7880	7800
80°	5793	6420	6106
85°	4017	4094	3937



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.6	3.8
10°-20°	1169.9	10.0
20°-30°	1701.3	14.5
30°-40°	2024.5	17.2
40°-50°	2102.1	17.9
50°-60°	1904.4	16.2
60°-70°	1437.0	12.2
70°-80°	783.0	6.7
80°-90°	172.1	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°	3317.8	28.3
0°-40°	5342.3	45.5
0°-60°	9348.8	79.6
0°-90°	11740.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11740.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5055	5055	5055	5055	5055	
5°	4835	4824	4801	4798	4801	449
15°	4140	4130	4133	4160	4173	1169
25°	3635	3665	3694	3725	3716	1675
35°	3151	3189	3244	3293	3276	1970
45°	2617	2664	2753	2784	2786	2023
55°	2018	2066	2174	2189	2182	1802
65°	1359	1398	1498	1495	1488	1343
75°	686	714	758	763	750	731
85°	130	131	133	131	128	164
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5054.6	5054.6	5054.6	5054.6	5054.6
2.5°	5010.4	5005.4	4988.9	4982.6	4981.3
5°	4834.9	4823.5	4800.7	4798.3	4800.7
7.5°	4625.2	4612.5	4589.9	4598.7	4610.1
10°	4448.4	4416.8	4407.9	4420.6	4442.0
12.5°	4290.5	4265.2	4257.6	4290.5	4305.7
15°	4140.1	4130.1	4132.6	4160.4	4173.0
17.5°	4010.1	4003.8	4020.2	4041.7	4048.0
20°	3880.0	3892.7	3907.8	3930.6	3938.1
22.5°	3752.5	3776.4	3801.7	3832.0	3821.9
25°	3635.0	3665.3	3694.4	3724.7	3715.9
27.5°	3509.9	3545.3	3585.7	3618.6	3605.9
30°	3389.9	3434.1	3473.3	3513.7	3494.8
32.5°	3271.3	3312.9	3359.6	3408.9	3387.4
35°	3151.2	3189.1	3243.5	3292.7	3276.3
37.5°	3018.7	3065.4	3127.2	3170.1	3158.9
40°	2894.9	2937.8	3012.3	3040.1	3037.6
42.5°	2769.8	2805.2	2883.5	2915.1	2910.0
45°	2617.0	2663.7	2753.4	2783.8	2786.2
47.5°	2481.9	2521.0	2617.0	2641.0	2646.0
50°	2326.5	2375.8	2471.8	2500.8	2504.6
52.5°	2173.6	2226.7	2325.2	2345.4	2349.3
55°	2018.3	2066.3	2173.6	2188.9	2182.5
57.5°	1855.4	1913.5	2012.0	2019.6	2025.9
60°	1696.2	1746.8	1842.7	1852.8	1839.0
62.5°	1523.2	1575.0	1673.5	1676.0	1664.6
65°	1359.0	1398.2	1497.9	1495.4	1487.8
67.5°	1187.2	1235.2	1308.5	1311.0	1304.8
70°	1026.8	1059.6	1130.4	1131.7	1116.6
72.5°	853.8	889.2	946.0	938.4	934.7
75°	685.8	713.6	757.9	762.9	750.2
77.5°	531.8	551.9	584.8	581.0	567.1
80°	373.8	390.3	414.3	409.3	394.0
82.5°	238.7	248.9	264.0	257.7	251.3
85°	130.1	131.3	132.6	131.3	127.5
87.5°	48.0	49.3	49.3	48.0	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)