

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: P489280

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-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: P489280
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-LD4-2STD-35-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

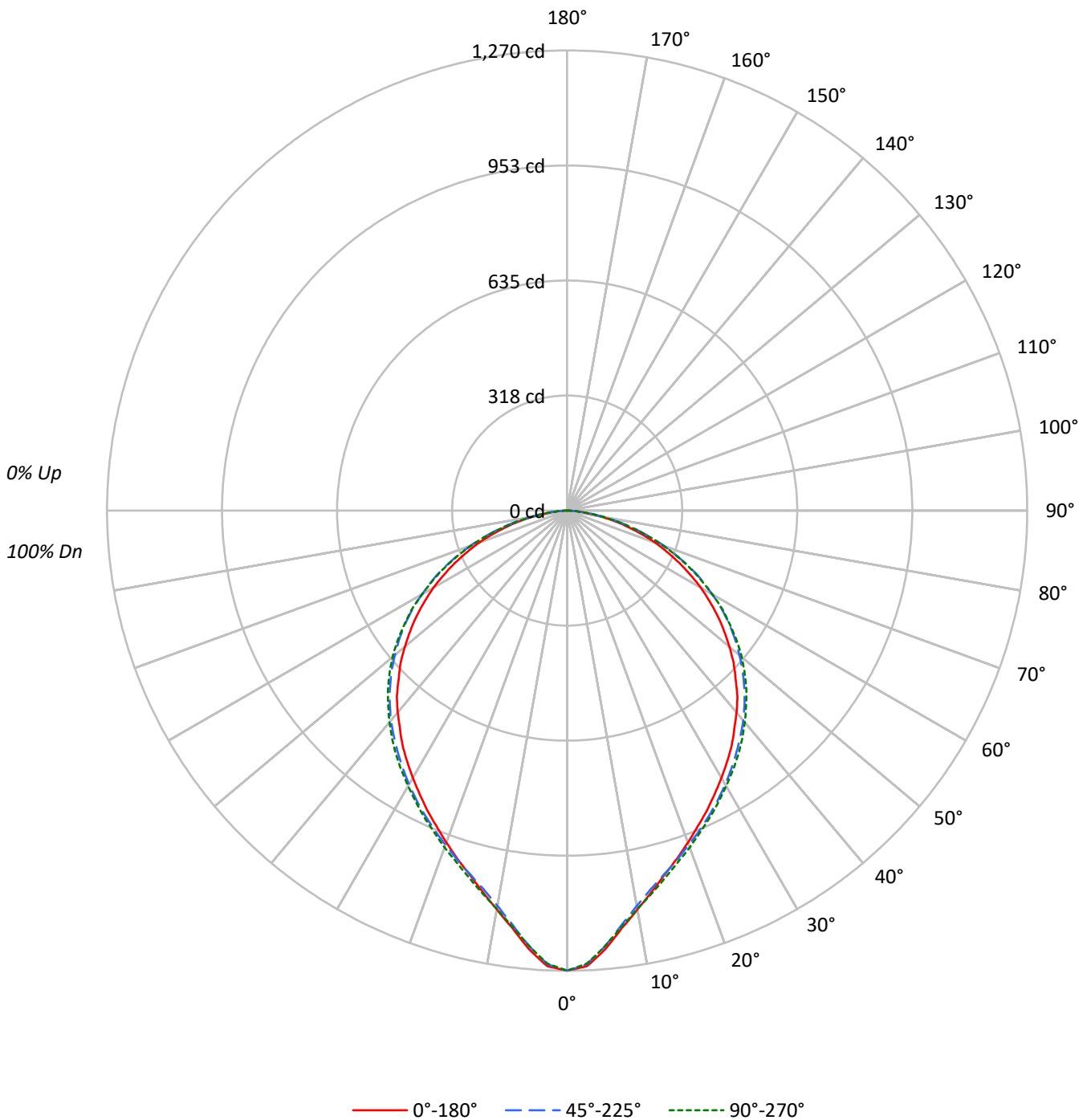
Lumens per Lamp: N/A
Luminaire Lumens: 2949.1 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	3416	3416	3416
5°	3280	3257	3257
10°	3053	3025	3049
15°	2897	2892	2920
20°	2791	2811	2833
25°	2711	2755	2771
30°	2646	2711	2728
35°	2600	2676	2704
40°	2554	2658	2680
45°	2501	2632	2663
50°	2447	2599	2634
55°	2379	2562	2572
60°	2293	2491	2486
65°	2173	2395	2379
70°	2029	2234	2207
75°	1791	1980	1959
80°	1455	1613	1534
85°	1010	1028	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.8
10°-20°	293.9	10.0
20°-30°	427.3	14.5
30°-40°	508.5	17.2
40°-50°	528.0	17.9
50°-60°	478.4	16.2
60°-70°	361.0	12.2
70°-80°	196.7	6.7
80°-90°	43.2	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°	833.4	28.3
0°-40°	1341.9	45.5
0°-60°	2348.3	79.6
0°-90°	2949.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2949.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1214	1212	1206	1205	1206	113
15°	1040	1037	1038	1045	1048	294
25°	913	921	928	936	933	421
35°	792	801	815	827	823	495
45°	657	669	692	699	700	508
55°	507	519	546	550	548	453
65°	341	351	376	376	374	337
75°	172	179	190	192	188	184
85°	33	33	33	33	32	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1258.5	1257.3	1253.1	1251.5	1251.2
5°	1214.4	1211.6	1205.9	1205.2	1205.9
7.5°	1161.8	1158.6	1152.9	1155.1	1158.0
10°	1117.4	1109.4	1107.2	1110.4	1115.8
12.5°	1077.7	1071.3	1069.4	1077.7	1081.5
15°	1039.9	1037.4	1038.0	1045.0	1048.2
17.5°	1007.3	1005.7	1009.8	1015.2	1016.8
20°	974.6	977.8	981.6	987.3	989.2
22.5°	942.6	948.6	954.9	962.5	960.0
25°	913.0	920.7	928.0	935.6	933.4
27.5°	881.6	890.5	900.7	908.9	905.7
30°	851.5	862.6	872.4	882.6	877.8
32.5°	821.7	832.1	843.9	856.3	850.9
35°	791.5	801.1	814.7	827.1	823.0
37.5°	758.2	770.0	785.5	796.3	793.5
40°	727.1	737.9	756.6	763.6	763.0
42.5°	695.7	704.6	724.3	732.2	730.9
45°	657.3	669.1	691.6	699.2	699.8
47.5°	623.4	633.2	657.3	663.4	664.6
50°	584.4	596.8	620.9	628.1	629.1
52.5°	546.0	559.3	584.1	589.1	590.1
55°	507.0	519.0	546.0	549.8	548.2
57.5°	466.0	480.6	505.4	507.3	508.9
60°	426.1	438.8	462.9	465.4	461.9
62.5°	382.6	395.6	420.4	421.0	418.1
65°	341.3	351.2	376.2	375.6	373.7
67.5°	298.2	310.3	328.7	329.3	327.7
70°	257.9	266.2	283.9	284.3	280.5
72.5°	214.5	223.3	237.6	235.7	234.8
75°	172.3	179.2	190.4	191.6	188.4
77.5°	133.6	138.6	146.9	145.9	142.4
80°	93.9	98.0	104.1	102.8	99.0
82.5°	59.9	62.5	66.3	64.7	63.1
85°	32.7	33.0	33.3	33.0	32.0
87.5°	12.1	12.4	12.4	12.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)