

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: P489306

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-40-120-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: P489306
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-LD4-3LO-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

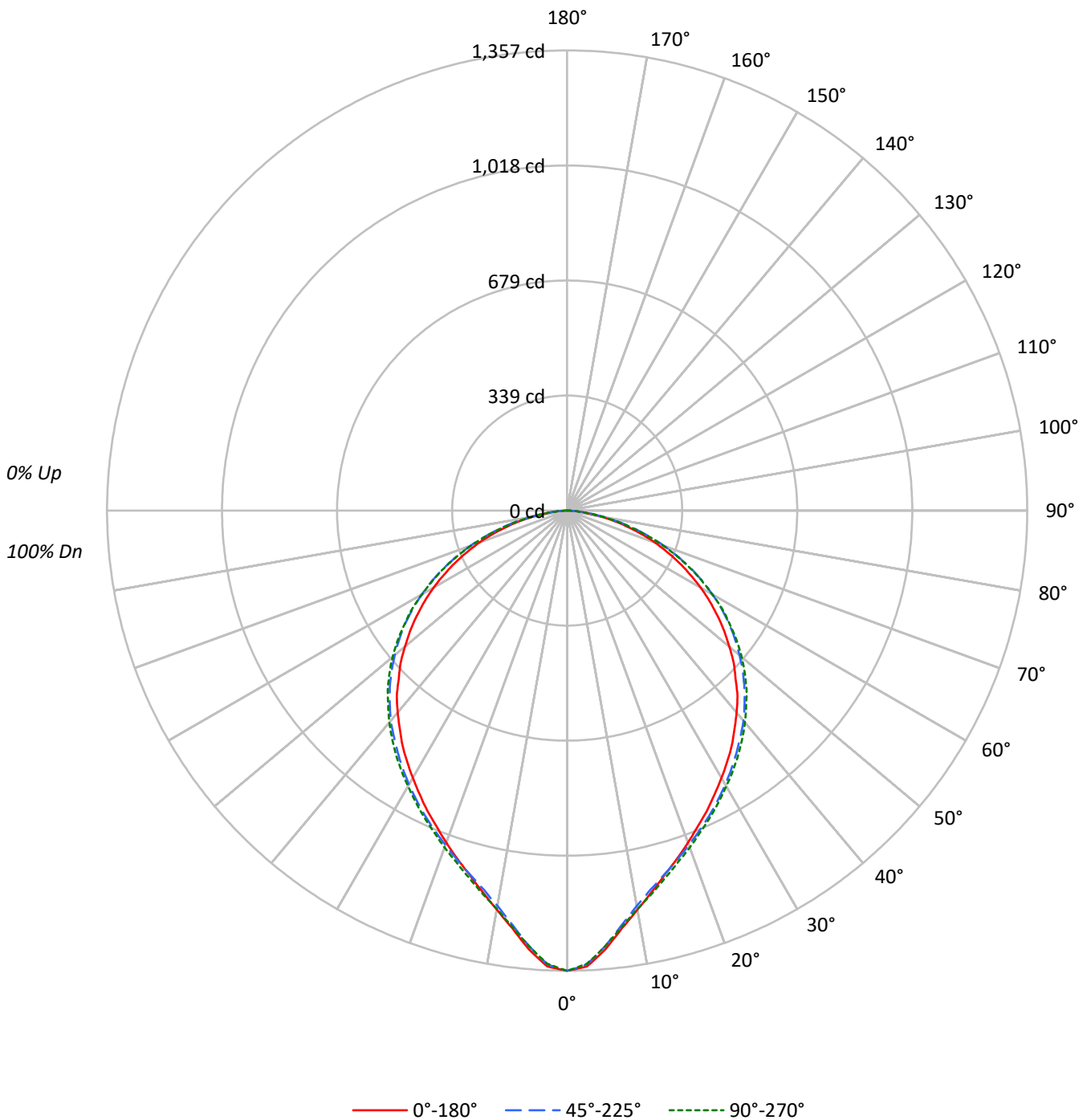
Lumens per Lamp: N/A
Luminaire Lumens: 3152.6 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	3652	3652	3652
5°	3507	3482	3482
10°	3264	3234	3259
15°	3097	3092	3122
20°	2983	3005	3028
25°	2898	2945	2963
30°	2828	2898	2916
35°	2780	2861	2890
40°	2731	2842	2865
45°	2674	2813	2847
50°	2615	2779	2815
55°	2542	2738	2749
60°	2451	2663	2658
65°	2323	2561	2544
70°	2169	2388	2359
75°	1915	2116	2094
80°	1556	1723	1640
85°	1078	1099	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.8
10°-20°	314.1	10.0
20°-30°	456.8	14.5
30°-40°	543.6	17.2
40°-50°	564.4	17.9
50°-60°	511.4	16.2
60°-70°	385.9	12.2
70°-80°	210.2	6.7
80°-90°	46.2	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°	890.9	28.3
0°-40°	1434.5	45.5
0°-60°	2510.3	79.6
0°-90°	3152.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3152.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1298	1295	1289	1288	1289	120
15°	1112	1109	1110	1117	1120	314
25°	976	984	992	1000	998	450
35°	846	856	871	884	880	529
45°	703	715	739	748	748	543
55°	542	555	584	588	586	484
65°	365	375	402	402	400	361
75°	184	192	204	205	201	196
85°	35	35	36	35	34	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.2	1357.2	1357.2	1357.2	1357.2
2.5°	1345.4	1344.0	1339.6	1337.9	1337.6
5°	1298.2	1295.2	1289.1	1288.4	1289.1
7.5°	1241.9	1238.5	1232.4	1234.8	1237.9
10°	1194.5	1186.0	1183.6	1187.0	1192.8
12.5°	1152.0	1145.3	1143.2	1152.0	1156.1
15°	1111.7	1109.0	1109.7	1117.1	1120.5
17.5°	1076.8	1075.1	1079.5	1085.3	1087.0
20°	1041.8	1045.2	1049.3	1055.4	1057.4
22.5°	1007.6	1014.0	1020.8	1029.0	1026.2
25°	976.1	984.2	992.0	1000.1	997.8
27.5°	942.5	952.0	962.8	971.6	968.2
30°	910.2	922.1	932.6	943.5	938.4
32.5°	878.4	889.6	902.1	915.3	909.6
35°	846.2	856.3	870.9	884.2	879.7
37.5°	810.6	823.1	839.7	851.2	848.2
40°	777.3	788.8	808.9	816.3	815.6
42.5°	743.7	753.2	774.3	782.7	781.4
45°	702.7	715.2	739.3	747.5	748.1
47.5°	666.4	676.9	702.7	709.1	710.5
50°	624.7	637.9	663.7	671.5	672.5
52.5°	583.6	597.9	624.4	629.8	630.8
55°	541.9	554.8	583.6	587.7	586.0
57.5°	498.2	513.8	540.3	542.3	544.0
60°	455.5	469.0	494.8	497.5	493.8
62.5°	409.0	422.9	449.4	450.0	447.0
65°	364.9	375.4	402.2	401.5	399.5
67.5°	318.8	331.7	351.4	352.0	350.3
70°	275.7	284.5	303.5	303.9	299.8
72.5°	229.3	238.8	254.0	252.0	251.0
75°	184.2	191.6	203.5	204.9	201.4
77.5°	142.8	148.2	157.0	156.0	152.3
80°	100.4	104.8	111.2	109.9	105.8
82.5°	64.1	66.8	70.9	69.2	67.5
85°	34.9	35.3	35.6	35.3	34.2
87.5°	12.9	13.2	13.2	12.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)