

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: P488779

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-40-120-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: P488779
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-12-4-INS-P12125-LD4-1STD-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

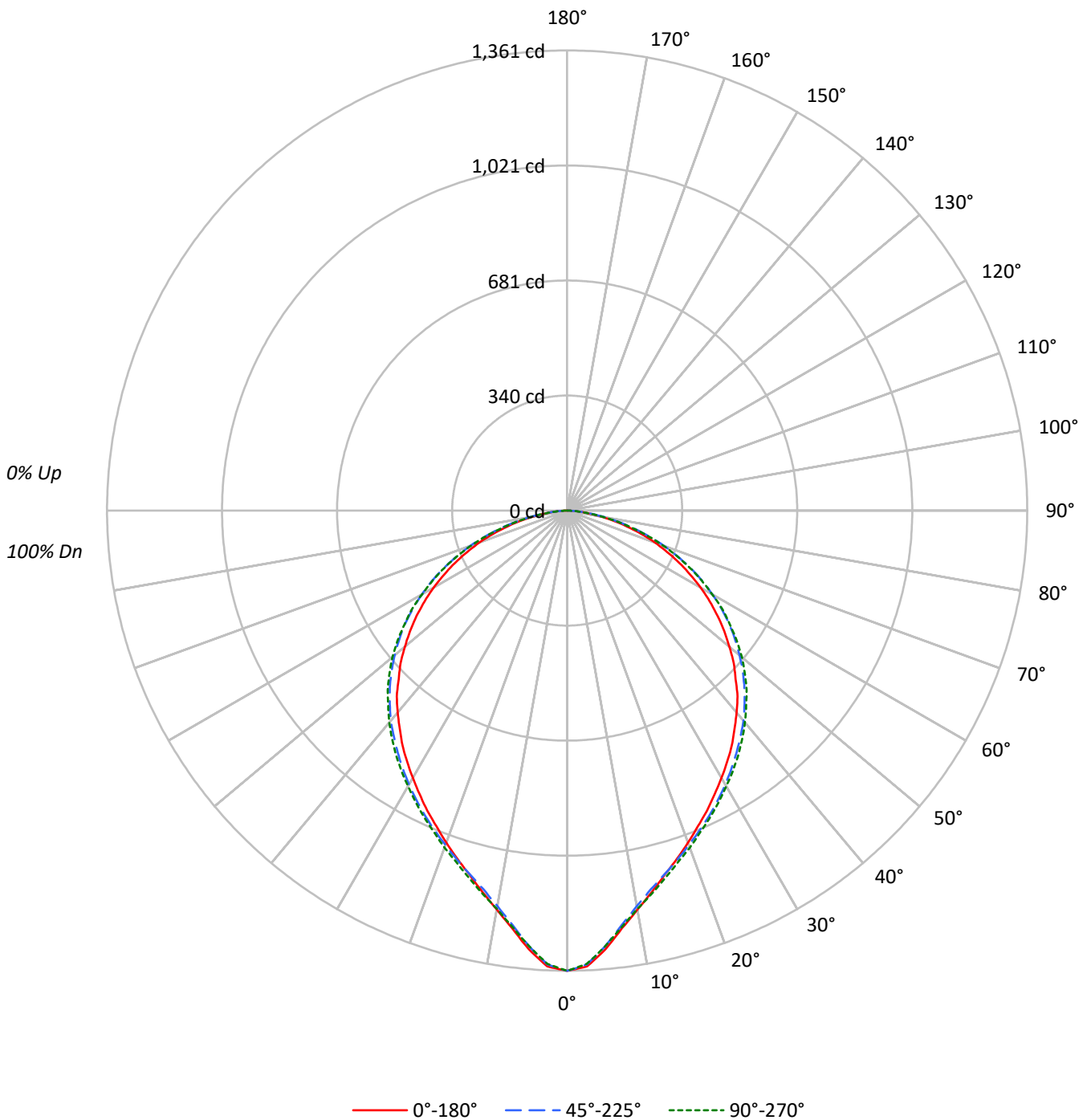
Lumens per Lamp: N/A
Luminaire Lumens: 3162.1 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3663	3663	3663
5°	3517	3493	3493
10°	3274	3244	3269
15°	3106	3101	3131
20°	2993	3014	3037
25°	2907	2954	2972
30°	2837	2907	2925
35°	2788	2870	2899
40°	2739	2850	2874
45°	2682	2822	2856
50°	2623	2787	2824
55°	2550	2746	2758
60°	2458	2671	2666
65°	2330	2569	2551
70°	2175	2395	2366
75°	1920	2122	2101
80°	1561	1729	1644
85°	1081	1102	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	3.8
10°-20°	315.1	10.0
20°-30°	458.2	14.5
30°-40°	545.2	17.2
40°-50°	566.1	17.9
50°-60°	512.9	16.2
60°-70°	387.0	12.2
70°-80°	210.9	6.7
80°-90°	46.3	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°	893.6	28.3
0°-40°	1438.8	45.5
0°-60°	2517.8	79.6
0°-90°	3162.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3162.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1302	1299	1293	1292	1293	121
15°	1115	1112	1113	1120	1124	315
25°	979	987	995	1003	1001	451
35°	849	859	874	887	882	531
45°	705	717	742	750	750	545
55°	544	556	585	590	588	485
65°	366	377	403	403	401	362
75°	185	192	204	206	202	197
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°	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1349.4	1348.1	1343.6	1341.9	1341.6
5°	1302.1	1299.1	1293.0	1292.3	1293.0
7.5°	1245.7	1242.3	1236.2	1238.5	1241.6
10°	1198.1	1189.6	1187.2	1190.6	1196.3
12.5°	1155.5	1148.7	1146.7	1155.5	1159.6
15°	1115.0	1112.3	1113.0	1120.5	1123.9
17.5°	1080.0	1078.3	1082.7	1088.5	1090.2
20°	1045.0	1048.4	1052.5	1058.6	1060.6
22.5°	1010.6	1017.1	1023.9	1032.1	1029.3
25°	979.0	987.1	995.0	1003.1	1000.8
27.5°	945.3	954.8	965.7	974.6	971.2
30°	913.0	924.9	935.4	946.3	941.2
32.5°	881.0	892.3	904.8	918.1	912.3
35°	848.7	858.9	873.5	886.8	882.4
37.5°	813.0	825.6	842.2	853.8	850.8
40°	779.7	791.2	811.3	818.8	818.1
42.5°	746.0	755.5	776.6	785.1	783.7
45°	704.8	717.4	741.5	749.7	750.4
47.5°	668.4	679.0	704.8	711.3	712.6
50°	626.6	639.9	665.7	673.5	674.6
52.5°	585.4	599.7	626.2	631.7	632.7
55°	543.6	556.5	585.4	589.5	587.8
57.5°	499.7	515.3	541.9	543.9	545.6
60°	456.8	470.4	496.3	499.0	495.3
62.5°	410.2	424.2	450.7	451.4	448.3
65°	366.0	376.6	403.4	402.8	400.7
67.5°	319.7	332.7	352.4	353.1	351.4
70°	276.5	285.4	304.4	304.8	300.7
72.5°	230.0	239.5	254.8	252.7	251.7
75°	184.7	192.2	204.1	205.5	202.1
77.5°	143.2	148.7	157.5	156.5	152.7
80°	100.7	105.1	111.6	110.2	106.1
82.5°	64.3	67.0	71.1	69.4	67.7
85°	35.0	35.4	35.7	35.4	34.4
87.5°	12.9	13.3	13.3	12.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)