

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: P488773

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-27-120-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: P488773
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-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

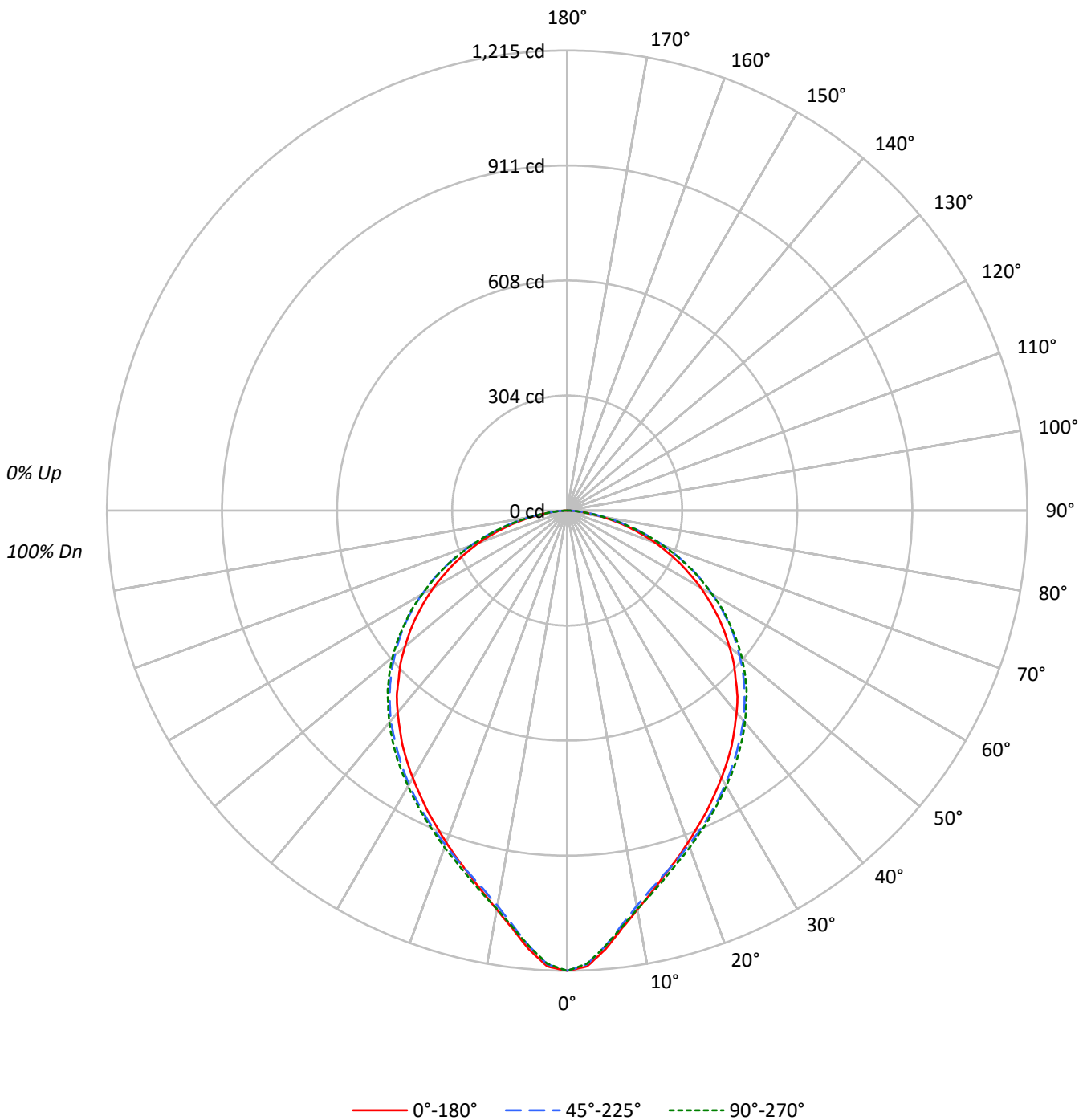
Lumens per Lamp: N/A
Luminaire Lumens: 2822.4 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3270	3270	3270
5°	3140	3118	3118
10°	2922	2895	2918
15°	2773	2768	2795
20°	2671	2690	2711
25°	2594	2637	2652
30°	2532	2595	2610
35°	2488	2561	2587
40°	2445	2544	2565
45°	2394	2519	2549
50°	2341	2488	2521
55°	2276	2451	2462
60°	2194	2384	2379
65°	2080	2293	2278
70°	1942	2138	2112
75°	1714	1894	1875
80°	1393	1543	1468
85°	966	985	948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.8
10°-20°	281.2	10.0
20°-30°	409.0	14.5
30°-40°	486.7	17.2
40°-50°	505.3	17.9
50°-60°	457.8	16.2
60°-70°	345.5	12.2
70°-80°	188.2	6.7
80°-90°	41.4	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°	797.6	28.3
0°-40°	1284.2	45.5
0°-60°	2247.4	79.6
0°-90°	2822.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2822.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1215	1215	1215	1215	1215	
5°	1162	1160	1154	1154	1154	108
15°	995	993	993	1000	1003	281
25°	874	881	888	895	893	403
35°	758	767	780	792	788	474
45°	629	640	662	669	670	486
55°	485	497	522	526	525	433
65°	327	336	360	360	358	323
75°	165	172	182	183	180	176
85°	31	32	32	32	31	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.1	1215.1	1215.1	1215.1	1215.1
2.5°	1204.5	1203.2	1199.3	1197.8	1197.5
5°	1162.3	1159.5	1154.1	1153.5	1154.1
7.5°	1111.9	1108.8	1103.4	1105.5	1108.2
10°	1069.3	1061.8	1059.6	1062.7	1067.8
12.5°	1031.4	1025.3	1023.5	1031.4	1035.0
15°	995.3	992.8	993.4	1000.1	1003.1
17.5°	964.0	962.5	966.4	971.6	973.1
20°	932.7	935.8	939.4	944.9	946.7
22.5°	902.1	907.8	913.9	921.2	918.8
25°	873.8	881.1	888.1	895.4	893.3
27.5°	843.8	852.2	862.0	869.9	866.8
30°	814.9	825.5	835.0	844.7	840.1
32.5°	786.4	796.4	807.6	819.5	814.3
35°	757.5	766.6	779.7	791.5	787.6
37.5°	725.7	736.9	751.7	762.1	759.4
40°	695.9	706.2	724.1	730.8	730.2
42.5°	665.8	674.3	693.2	700.8	699.5
45°	629.1	640.3	661.9	669.2	669.8
47.5°	596.6	606.0	629.1	634.9	636.1
50°	559.3	571.1	594.2	601.2	602.1
52.5°	522.5	535.3	559.0	563.8	564.7
55°	485.2	496.7	522.5	526.2	524.7
57.5°	446.0	460.0	483.7	485.5	487.0
60°	407.7	419.9	443.0	445.4	442.1
62.5°	366.2	378.6	402.3	402.9	400.2
65°	326.7	336.1	360.1	359.5	357.7
67.5°	285.4	296.9	314.6	315.1	313.7
70°	246.8	254.7	271.7	272.0	268.4
72.5°	205.3	213.7	227.4	225.6	224.7
75°	164.9	171.5	182.2	183.4	180.3
77.5°	127.8	132.7	140.6	139.7	136.3
80°	89.9	93.8	99.6	98.4	94.7
82.5°	57.4	59.8	63.5	61.9	60.4
85°	31.3	31.6	31.9	31.6	30.7
87.5°	11.5	11.8	11.8	11.5	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)