

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: P488470

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1LO-20-120-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: P488470
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-12-2-INS-P12125-LD4-1LO-20-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

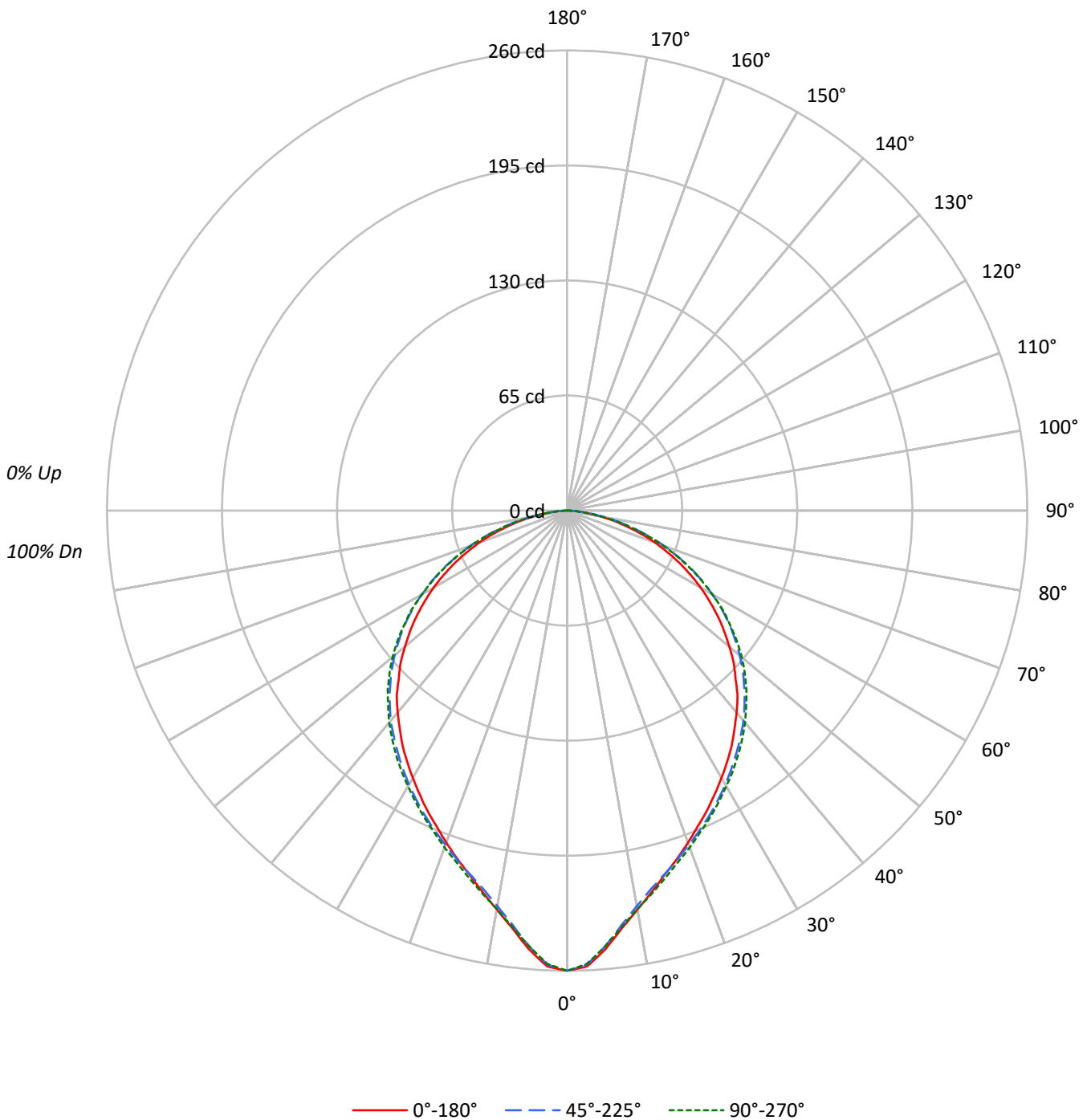
Lumens per Lamp: N/A
Luminaire Lumens: 604.0 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	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°	1399	1399	1399
5°	1344	1334	1334
10°	1250	1239	1249
15°	1187	1185	1196
20°	1143	1151	1160
25°	1110	1129	1135
30°	1084	1111	1117
35°	1065	1097	1107
40°	1046	1089	1098
45°	1024	1078	1091
50°	1002	1065	1078
55°	974	1049	1054
60°	940	1020	1018
65°	890	982	974
70°	831	916	903
75°	734	811	803
80°	595	660	629
85°	414	420	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	3.8
10°-20°	60.2	10.0
20°-30°	87.5	14.5
30°-40°	104.2	17.2
40°-50°	108.1	17.9
50°-60°	98.0	16.2
60°-70°	73.9	12.2
70°-80°	40.3	6.7
80°-90°	8.9	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°	170.7	28.3
0°-40°	274.8	45.5
0°-60°	480.9	79.6
0°-90°	604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	260	260	260	260	260	
5°	249	248	247	247	247	23
15°	213	212	213	214	215	60
25°	187	189	190	192	191	86
35°	162	164	167	169	168	101
45°	135	137	142	143	143	104
55°	104	106	112	113	112	93
65°	70	72	77	77	76	69
75°	35	37	39	39	39	38
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	260.0	260.0	260.0	260.0	260.0
2.5°	257.8	257.5	256.7	256.3	256.3
5°	248.7	248.1	247.0	246.8	247.0
7.5°	237.9	237.3	236.1	236.6	237.2
10°	228.8	227.2	226.8	227.4	228.5
12.5°	220.7	219.4	219.0	220.7	221.5
15°	213.0	212.5	212.6	214.0	214.7
17.5°	206.3	206.0	206.8	207.9	208.2
20°	199.6	200.3	201.0	202.2	202.6
22.5°	193.0	194.3	195.6	197.1	196.6
25°	187.0	188.6	190.1	191.6	191.2
27.5°	180.6	182.4	184.5	186.2	185.5
30°	174.4	176.7	178.7	180.8	179.8
32.5°	168.3	170.4	172.8	175.4	174.3
35°	162.1	164.1	166.9	169.4	168.5
37.5°	155.3	157.7	160.9	163.1	162.5
40°	148.9	151.1	155.0	156.4	156.3
42.5°	142.5	144.3	148.3	150.0	149.7
45°	134.6	137.0	141.6	143.2	143.3
47.5°	127.7	129.7	134.6	135.9	136.1
50°	119.7	122.2	127.2	128.6	128.8
52.5°	111.8	114.5	119.6	120.7	120.9
55°	103.8	106.3	111.8	112.6	112.3
57.5°	95.4	98.4	103.5	103.9	104.2
60°	87.3	89.9	94.8	95.3	94.6
62.5°	78.4	81.0	86.1	86.2	85.6
65°	69.9	71.9	77.1	76.9	76.5
67.5°	61.1	63.5	67.3	67.4	67.1
70°	52.8	54.5	58.2	58.2	57.4
72.5°	43.9	45.7	48.7	48.3	48.1
75°	35.3	36.7	39.0	39.2	38.6
77.5°	27.4	28.4	30.1	29.9	29.2
80°	19.2	20.1	21.3	21.1	20.3
82.5°	12.3	12.8	13.6	13.3	12.9
85°	6.7	6.8	6.8	6.8	6.6
87.5°	2.5	2.5	2.5	2.5	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)