

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: P489214

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-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: P489214
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-LD4-1HI-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

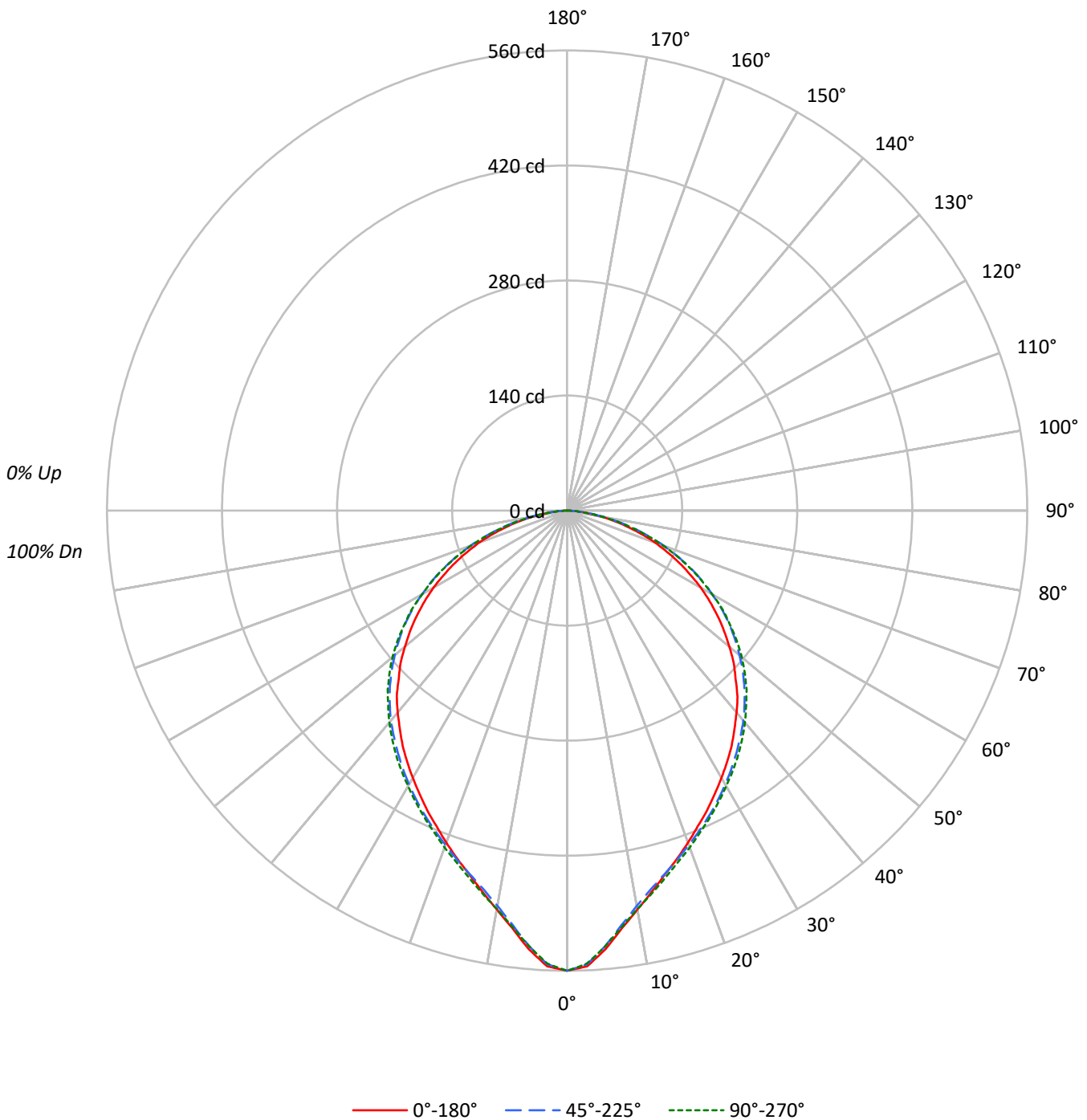
Lumens per Lamp: N/A
Luminaire Lumens: 1300.8 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	1507	1507	1507
5°	1447	1437	1437
10°	1347	1335	1345
15°	1278	1276	1288
20°	1231	1240	1249
25°	1196	1215	1222
30°	1167	1196	1203
35°	1147	1181	1192
40°	1127	1172	1182
45°	1103	1161	1175
50°	1079	1147	1162
55°	1049	1130	1134
60°	1011	1099	1096
65°	959	1057	1049
70°	895	985	973
75°	790	873	864
80°	642	711	677
85°	445	454	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	3.8
10°-20°	129.6	10.0
20°-30°	188.5	14.5
30°-40°	224.3	17.2
40°-50°	232.9	17.9
50°-60°	211.0	16.2
60°-70°	159.2	12.2
70°-80°	86.8	6.7
80°-90°	19.0	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°	367.6	28.3
0°-40°	591.9	45.5
0°-60°	1035.8	79.6
0°-90°	1300.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1300.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	536	534	532	532	532	50
15°	459	458	458	461	462	129
25°	403	406	409	413	412	186
35°	349	353	359	365	363	218
45°	290	295	305	308	309	224
55°	224	229	241	242	242	200
65°	151	155	166	166	165	149
75°	76	79	84	84	83	81
85°	14	14	15	14	14	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	560.0	560.0	560.0	560.0	560.0
2.5°	555.1	554.6	552.7	552.0	551.9
5°	535.7	534.4	531.9	531.6	531.9
7.5°	512.4	511.0	508.5	509.5	510.8
10°	492.8	489.3	488.4	489.8	492.1
12.5°	475.3	472.6	471.7	475.3	477.0
15°	458.7	457.6	457.9	460.9	462.3
17.5°	444.3	443.6	445.4	447.8	448.5
20°	429.9	431.3	433.0	435.5	436.3
22.5°	415.7	418.4	421.2	424.6	423.4
25°	402.7	406.1	409.3	412.7	411.7
27.5°	388.9	392.8	397.3	400.9	399.5
30°	375.6	380.5	384.8	389.3	387.2
32.5°	362.4	367.0	372.2	377.7	375.3
35°	349.1	353.3	359.4	364.8	363.0
37.5°	334.4	339.6	346.5	351.2	350.0
40°	320.7	325.5	333.7	336.8	336.5
42.5°	306.9	310.8	319.5	323.0	322.4
45°	289.9	295.1	305.1	308.4	308.7
47.5°	275.0	279.3	289.9	292.6	293.2
50°	257.8	263.2	273.9	277.1	277.5
52.5°	240.8	246.7	257.6	259.9	260.3
55°	223.6	228.9	240.8	242.5	241.8
57.5°	205.6	212.0	222.9	223.8	224.5
60°	187.9	193.5	204.2	205.3	203.7
62.5°	168.8	174.5	185.4	185.7	184.4
65°	150.6	154.9	166.0	165.7	164.8
67.5°	131.5	136.8	145.0	145.2	144.6
70°	113.8	117.4	125.2	125.4	123.7
72.5°	94.6	98.5	104.8	104.0	103.6
75°	76.0	79.1	84.0	84.5	83.1
77.5°	58.9	61.2	64.8	64.4	62.8
80°	41.4	43.2	45.9	45.3	43.7
82.5°	26.4	27.6	29.2	28.5	27.8
85°	14.4	14.5	14.7	14.5	14.1
87.5°	5.3	5.5	5.5	5.3	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)