

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: P24513

Luminaire Tested: **MPR3-G-LD3-UNV-XX/XX/HI-ED3C**

Test Date: 06/03/14

Test Information

Test Method: LM-79-08
Report Number: P24513
Test Lab: INNOVATION CENTER-P2
Test Date: 06/03/14
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MPR3-G-LD3-UNV-XX/XX/HI-ED3C
Description: METALUX 2X4 MPR3 AMBIENT/EXAM/READING LIGHT
Light Source: (1) 3500K LED LIGHT STRIP
1UT217049835
Ballast/Driver: (1) 25W ADVANCE ELECTRONIC DRIVER
XIO25C100V036XPL1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1264.3 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 1.11 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 1.92' x H: 0.1')
CIE Type: Direct

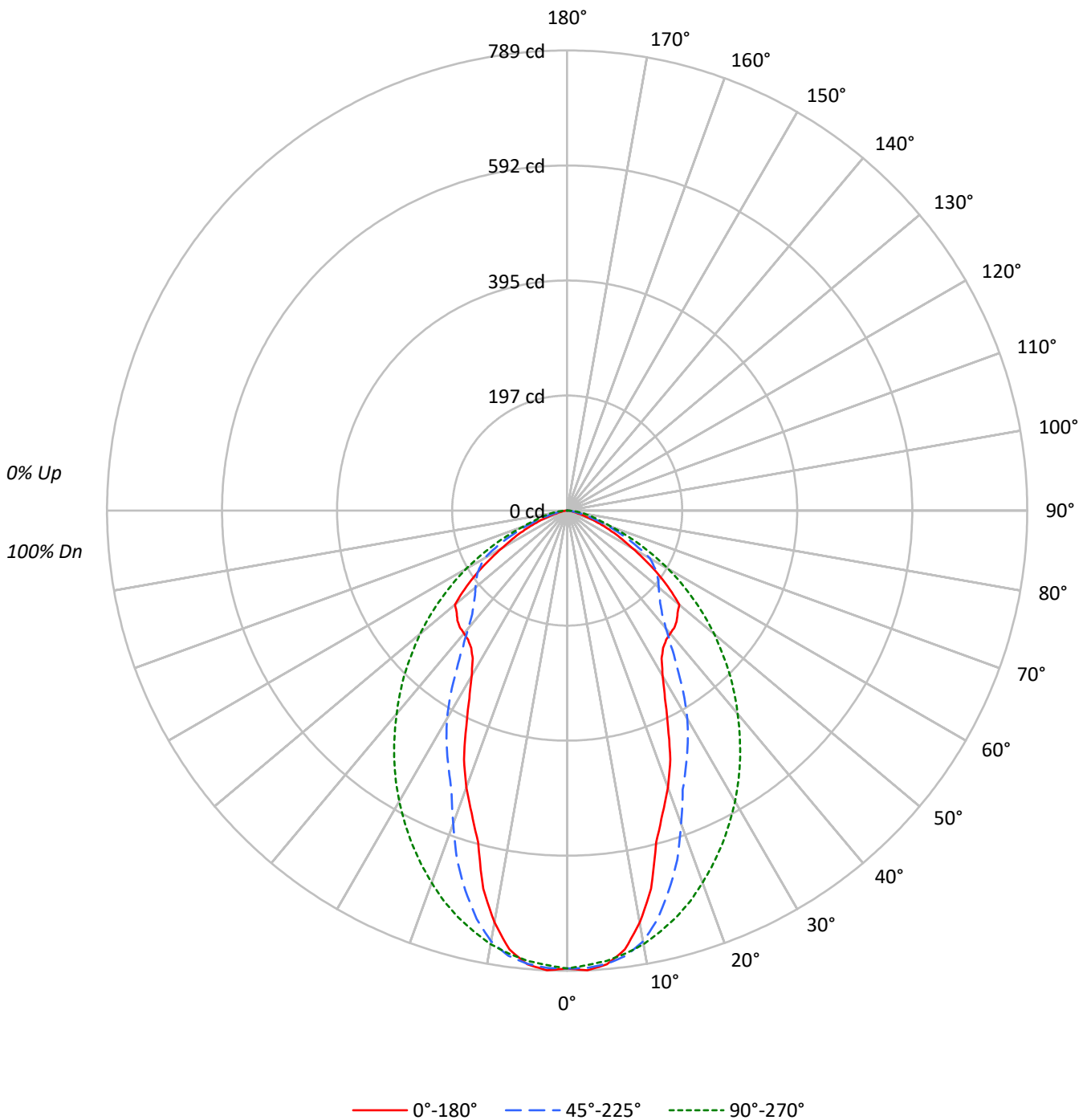
Input Watts (W): 20.5
Input Voltage (V): 120.01
Input Current (A_{in}): 0.173
Voltage Rise (V): NR
Power Factor: 0.9977
Total Harmonic Distortion (THDi): 14.7%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 13 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	76	71	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	54	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10077	10077	10077
5°	10018	9879	9790
10°	9261	9445	9460
15°	7719	8505	9041
20°	6770	7274	8563
25°	5655	6248	8064
30°	4705	5479	7542
35°	4339	4526	6984
40°	4415	3778	6397
45°	4589	3423	5807
50°	4719	3311	5164
55°	3978	3278	4454
60°	3037	3133	3678
65°	2295	2429	2792
70°	1543	1676	1844
75°	830	997	1311
80°	513	487	934
85°	369	225	530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	5.8
10°-20°	186.5	14.7
20°-30°	232.8	18.4
30°-40°	228.8	18.1
40°-50°	213.1	16.9
50°-60°	175.7	13.9
60°-70°	105.6	8.3
70°-80°	41.1	3.2
80°-90°	7.6	0.6
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°	492.5	39.0
0°-40°	721.3	57.0
0°-60°	1110.0	87.8
0°-90°	1264.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	781	780	780	778	775	73
15°	589	620	674	720	722	167
25°	409	436	482	594	630	188
35°	287	286	329	426	517	183
45°	266	254	226	294	393	205
55°	191	200	188	180	264	170
65°	84	91	114	108	137	84
75°	20	24	35	58	49	24
85°	4	4	5	8	13	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	785	785	785	785	785	785	785	785	785	785	785
2.5°	789	792	788	788	788	786	784	783	786	785	786
5°	781	784	780	782	781	780	778	778	782	780	782
7.5°	759	762	759	763	764	763	764	765	770	770	771
10°	717	722	720	725	727	729	732	737	745	750	754
12.5°	664	668	667	673	677	682	688	694	708	717	725
15°	589	592	593	606	615	625	635	645	660	674	687
17.5°	544	546	545	550	553	559	567	584	609	628	644
20°	505	508	508	512	516	520	526	532	546	571	596
22.5°	462	465	466	472	477	483	490	495	507	518	536
25°	409	412	414	423	431	440	452	459	472	482	495
27.5°	363	368	368	374	381	392	406	418	435	448	460
30°	327	329	330	336	341	349	360	371	394	412	427
32.5°	301	302	300	303	306	313	322	331	350	371	392
35°	287	288	285	288	287	286	288	297	312	329	353
37.5°	279	279	276	277	274	272	271	270	280	293	312
40°	275	276	272	272	267	263	259	256	256	263	278
42.5°	272	272	268	268	263	257	250	244	242	241	249
45°	266	267	263	262	257	252	245	236	230	226	225
47.5°	257	257	254	254	251	246	238	230	222	214	210
50°	251	251	248	246	241	236	231	222	215	205	198
52.5°	222	223	222	225	227	228	220	213	207	197	187
55°	191	192	191	195	197	202	205	203	195	188	178
57.5°	159	160	160	164	169	173	176	180	185	176	169
60°	129	130	131	135	140	144	148	153	160	164	157
62.5°	106	106	105	109	111	115	121	126	133	139	145
65°	84	84	84	87	89	93	95	100	108	114	121
67.5°	64	64	64	67	69	72	75	79	84	89	98
70°	47	47	47	49	51	53	56	59	64	69	75
72.5°	31	31	32	33	35	37	40	42	47	51	56
75°	20	20	21	22	23	24	27	28	32	35	39
77.5°	13	13	14	14	15	16	17	18	20	23	26
80°	9	9	10	10	10	11	11	12	13	14	16
82.5°	6	6	7	7	7	7	7	8	8	9	10
85°	4	4	4	4	4	4	4	4	5	5	5
87.5°	1	1	1	1	1	1	1	1	1	1	2
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	785	785	785	785	785	785	785	785
2.5°	784	784	785	781	779	782	779	780
5°	779	779	780	776	775	777	774	775
7.5°	770	770	771	767	766	769	765	766
10°	754	756	758	755	754	756	754	755
12.5°	730	738	741	739	739	741	738	739
15°	698	710	719	720	720	723	721	722
17.5°	659	678	692	697	699	703	701	702
20°	616	639	659	670	676	680	679	679
22.5°	570	598	622	639	650	656	654	655
25°	513	553	583	605	622	630	629	630
27.5°	476	499	542	568	590	602	602	603
30°	441	458	496	529	556	573	574	576
32.5°	409	424	445	487	520	541	545	547
35°	375	392	409	444	482	509	514	517
37.5°	339	360	378	397	444	475	483	486
40°	302	329	347	363	404	441	452	455
42.5°	267	295	317	331	361	406	420	424
45°	237	259	288	301	322	370	388	393
47.5°	212	228	256	272	290	332	355	360
50°	195	202	224	245	261	295	322	329
52.5°	181	180	195	218	234	256	290	297
55°	169	164	170	190	207	223	257	264
57.5°	159	152	150	163	182	194	223	232
60°	150	140	134	140	158	167	190	200
62.5°	138	130	123	121	134	143	157	168
65°	126	119	112	105	113	120	125	137
67.5°	104	107	101	93	93	97	99	107
70°	82	90	89	82	77	77	77	80
72.5°	61	69	75	71	65	62	60	61
75°	43	49	57	59	54	50	49	49
77.5°	29	33	38	44	43	39	39	38
80°	18	21	24	28	31	29	29	29
82.5°	10	12	14	16	18	19	20	20
85°	6	6	7	9	10	11	12	13
87.5°	2	2	3	3	4	5	5	5
90°	0	0	0	0	0	0	0	0

(END OF REPORT)