

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: METALUX

Report Number: P259376

Luminaire Tested: **22CZ-LD5-20-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2082.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

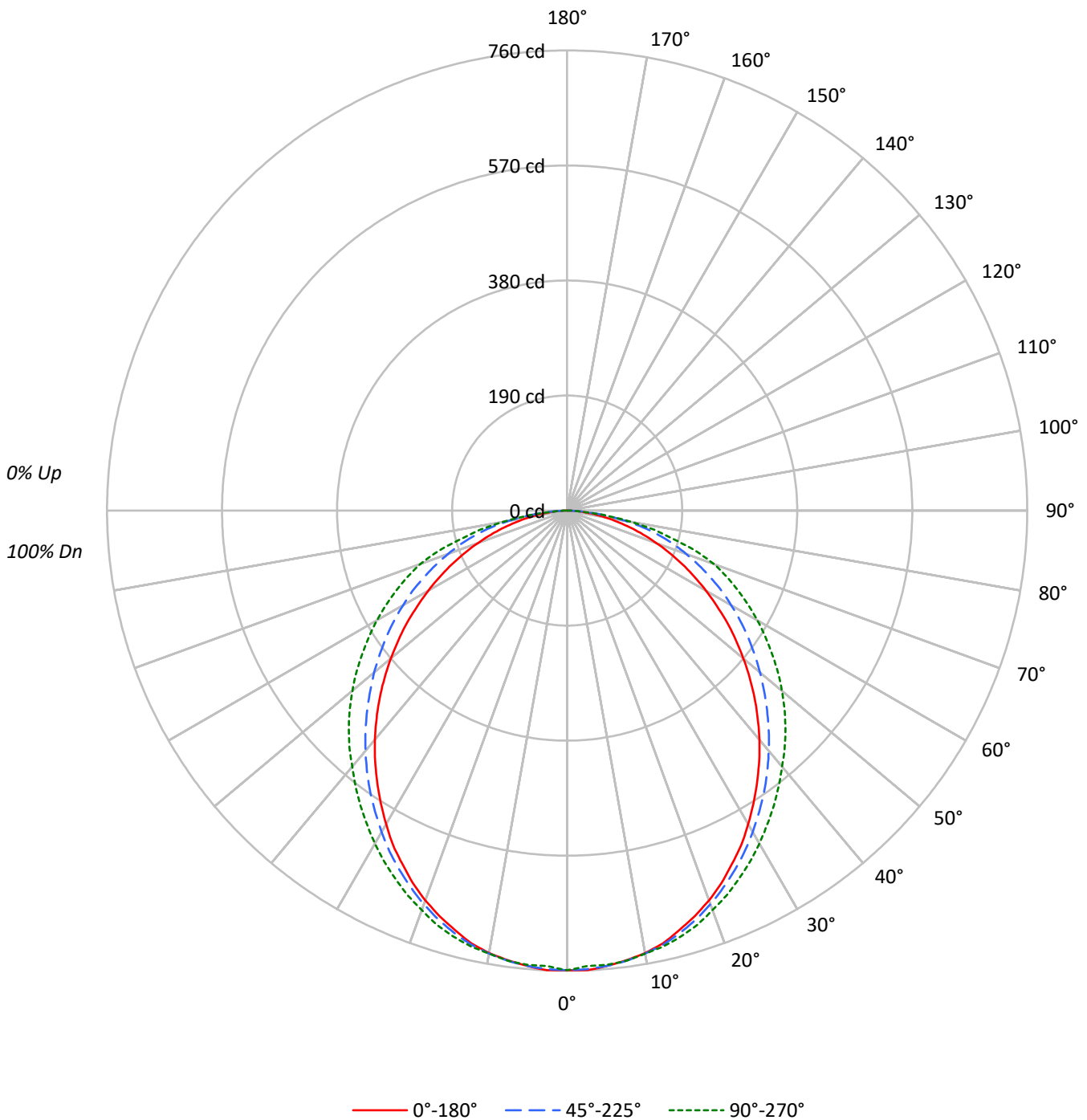
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2042	2042	2042
5°	2039	2039	2034
10°	2028	2030	2030
15°	1997	2011	2028
20°	1962	1982	2010
25°	1912	1945	1992
30°	1858	1905	1973
35°	1797	1863	1955
40°	1735	1820	1939
45°	1667	1777	1941
50°	1591	1742	1938
55°	1515	1712	1938
60°	1426	1685	1954
65°	1337	1662	1980
70°	1235	1644	2030
75°	1112	1632	1882
80°	976	1519	1643
85°	803	1142	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.4
10°-20°	203.6	9.8
20°-30°	302.4	14.5
30°-40°	356.0	17.1
40°-50°	362.9	17.4
50°-60°	327.3	15.7
60°-70°	257.8	12.4
70°-80°	159.0	7.6
80°-90°	41.3	2.0
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°	577.7	27.7
0°-40°	933.7	44.8
0°-60°	1623.9	78.0
0°-90°	2082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	755	756	755	754	753	72
15°	717	720	722	726	728	202
25°	644	648	655	666	671	297
35°	547	553	567	585	595	342
45°	438	445	467	495	510	338
55°	323	334	365	398	413	288
65°	210	225	261	294	311	208
75°	107	125	157	175	181	114
85°	26	33	37	35	33	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759	759	759	759	759
2.5°	760	760	758	756	753
5°	755	756	755	754	753
7.5°	749	750	750	750	750
10°	742	743	743	743	743
12.5°	732	733	734	735	737
15°	717	720	722	726	728
17.5°	702	705	708	713	717
20°	685	687	692	698	702
22.5°	666	669	674	682	688
25°	644	648	655	666	671
27.5°	623	626	635	647	654
30°	598	602	613	628	635
32.5°	573	578	590	607	615
35°	547	553	567	585	595
37.5°	521	527	543	563	574
40°	494	500	518	540	552
42.5°	466	473	493	518	532
45°	438	445	467	495	510
47.5°	409	417	441	472	487
50°	380	389	416	448	463
52.5°	351	361	390	423	439
55°	323	334	365	398	413
57.5°	293	306	339	371	388
60°	265	279	313	345	363
62.5°	237	252	288	320	337
65°	210	225	261	294	311
67.5°	183	200	235	268	285
70°	157	175	209	241	258
72.5°	132	150	184	214	224
75°	107	125	157	175	181
77.5°	84	101	129	140	148
80°	63	78	98	105	106
82.5°	43	56	68	69	68
85°	26	33	37	35	33
87.5°	12	13	12	8	5
90°	0	0	0	0	0

(END OF REPORT)