

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: P259378

Luminaire Tested: **22CZ-LD5-20-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259378
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2313.0 lumens
Efficiency: N/A
Efficacy: 145.4 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

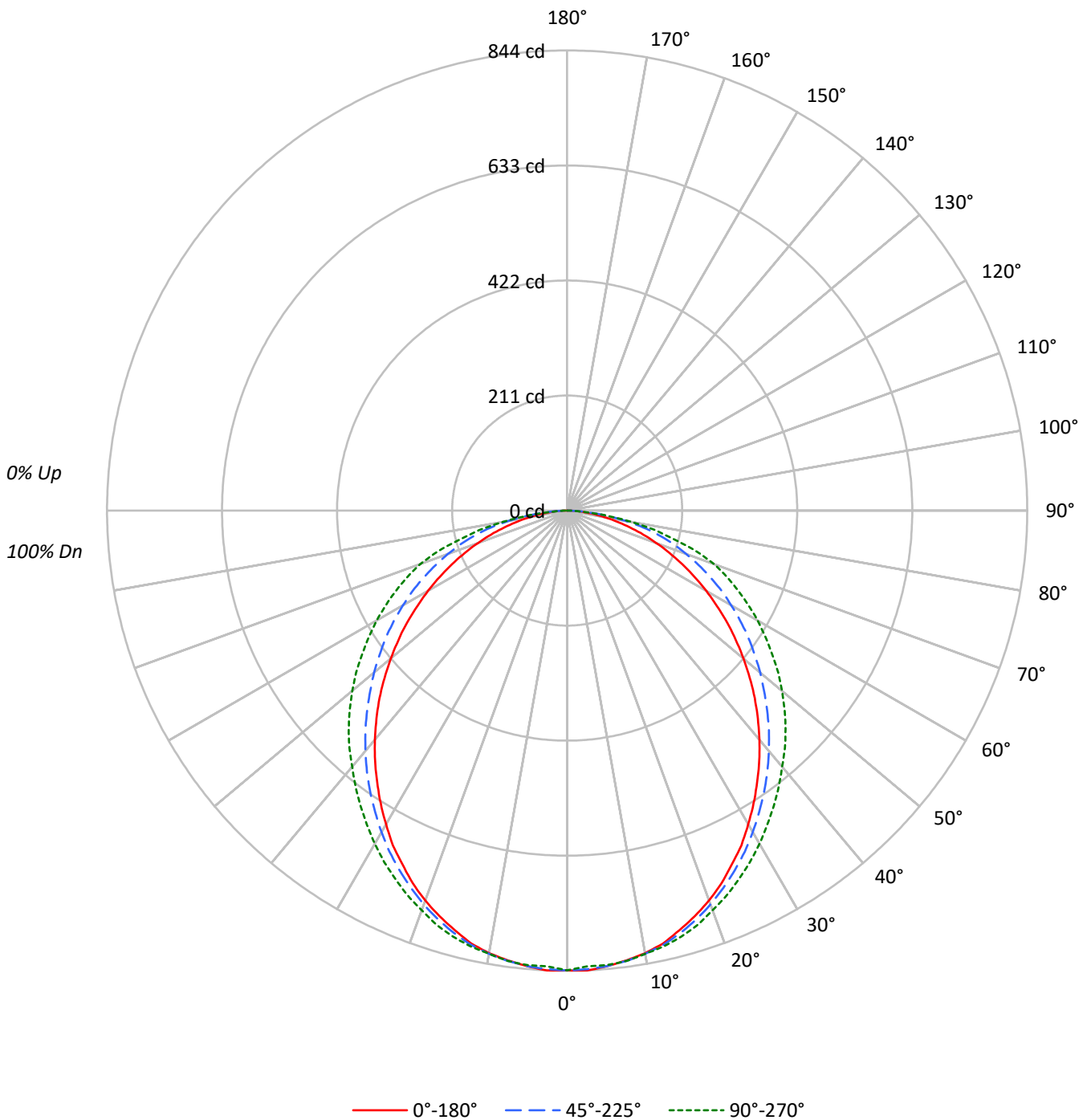
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2269	2269	2269
5°	2266	2266	2260
10°	2252	2255	2255
15°	2219	2235	2253
20°	2179	2202	2233
25°	2124	2161	2214
30°	2064	2116	2192
35°	1996	2069	2171
40°	1928	2022	2154
45°	1852	1974	2156
50°	1768	1935	2153
55°	1683	1902	2152
60°	1584	1871	2171
65°	1486	1847	2200
70°	1372	1827	2255
75°	1236	1813	2091
80°	1085	1688	1826
85°	892	1269	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.4
10°-20°	226.2	9.8
20°-30°	336.0	14.5
30°-40°	395.5	17.1
40°-50°	403.2	17.4
50°-60°	363.6	15.7
60°-70°	286.4	12.4
70°-80°	176.7	7.6
80°-90°	45.9	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°	641.8	27.7
0°-40°	1037.3	44.8
0°-60°	1804.1	78.0
0°-90°	2313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	839	840	839	838	837	80
15°	797	800	802	807	809	225
25°	716	720	728	740	746	330
35°	608	614	630	650	661	380
45°	487	494	519	550	567	375
55°	359	371	406	442	459	320
65°	233	250	290	327	346	231
75°	119	139	174	194	201	127
85°	29	37	41	39	37	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.2	843.2	843.2	843.2	843.2
2.5°	844.3	844.3	842.1	839.9	836.6
5°	838.8	839.9	838.8	837.7	836.6
7.5°	832.1	833.2	833.2	833.2	833.2
10°	824.3	825.4	825.4	825.4	825.4
12.5°	813.2	814.3	815.5	816.6	818.8
15°	796.6	799.9	802.1	806.6	808.8
17.5°	779.9	783.2	786.6	792.1	796.6
20°	761.0	763.2	768.8	775.5	779.9
22.5°	739.9	743.2	748.8	757.7	764.3
25°	715.5	719.9	727.7	739.9	745.5
27.5°	692.1	695.5	705.5	718.8	726.6
30°	664.4	668.8	681.0	697.7	705.5
32.5°	636.6	642.1	655.5	674.4	683.2
35°	607.7	614.4	629.9	649.9	661.0
37.5°	578.8	585.5	603.3	625.5	637.7
40°	548.8	555.5	575.5	599.9	613.3
42.5°	517.7	525.5	547.7	575.5	591.0
45°	486.6	494.4	518.8	549.9	566.6
47.5°	454.4	463.3	489.9	524.4	541.0
50°	422.2	432.2	462.2	497.7	514.4
52.5°	390.0	401.1	433.3	469.9	487.7
55°	358.8	371.1	405.5	442.2	458.8
57.5°	325.5	340.0	376.6	412.2	431.1
60°	294.4	310.0	347.7	383.3	403.3
62.5°	263.3	280.0	320.0	355.5	374.4
65°	233.3	250.0	290.0	326.6	345.5
67.5°	203.3	222.2	261.1	297.7	316.6
70°	174.4	194.4	232.2	267.7	286.6
72.5°	146.6	166.6	204.4	237.7	248.9
75°	118.9	138.9	174.4	194.4	201.1
77.5°	93.3	112.2	143.3	155.5	164.4
80°	70.0	86.7	108.9	116.7	117.8
82.5°	47.8	62.2	75.5	76.7	75.5
85°	28.9	36.7	41.1	38.9	36.7
87.5°	13.3	14.4	13.3	8.9	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)