

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: P259271

Luminaire Tested: **22CZ-LD5-20-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2156.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

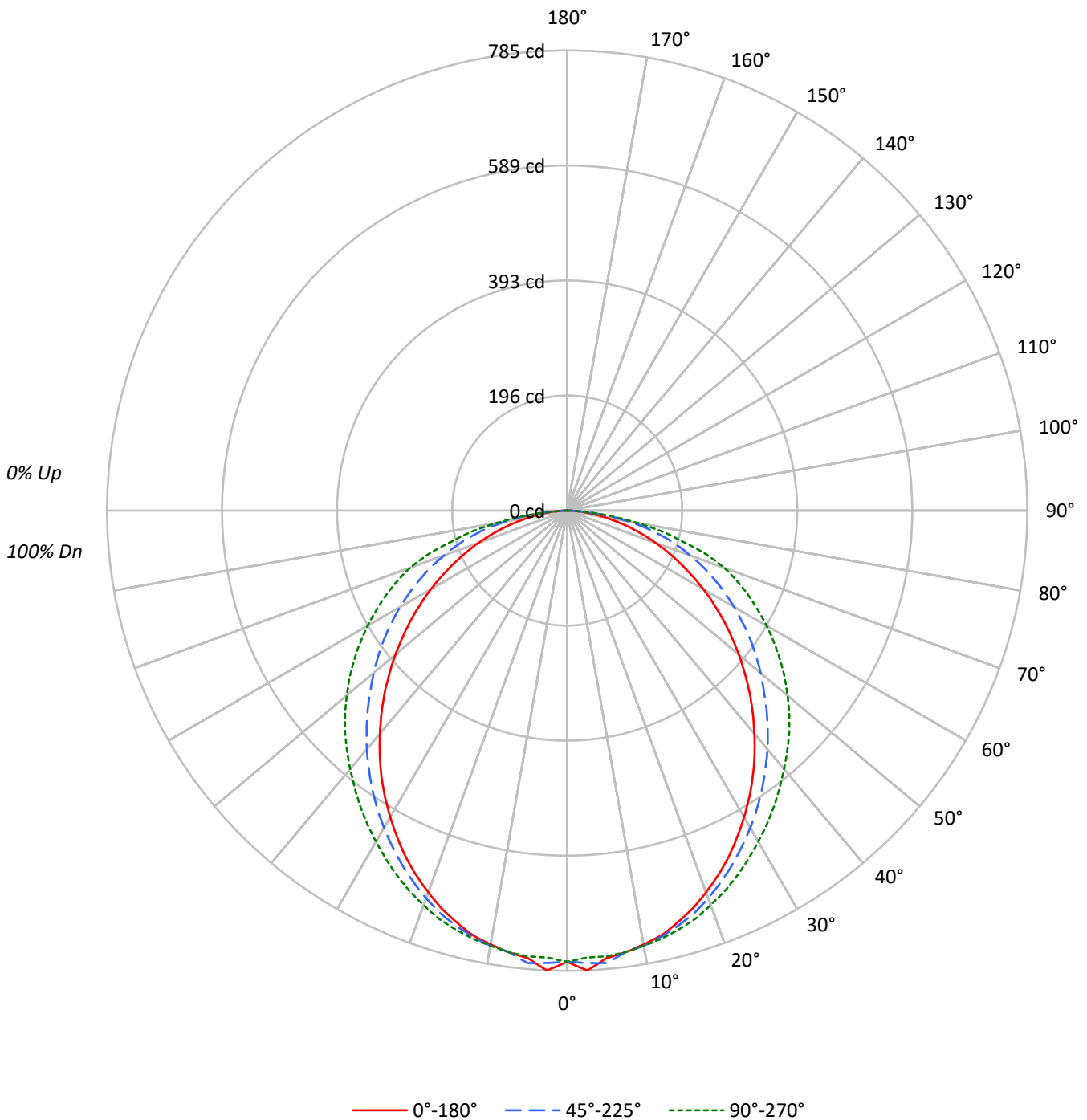
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2071	2071	2071
5°	2070	2093	2062
10°	2054	2060	2060
15°	2027	2042	2059
20°	1985	2015	2051
25°	1936	1980	2039
30°	1876	1942	2026
35°	1815	1905	2022
40°	1746	1867	2022
45°	1676	1831	2039
50°	1602	1804	2054
55°	1525	1786	2081
60°	1445	1772	2116
65°	1355	1762	2169
70°	1262	1757	2244
75°	1145	1755	2125
80°	992	1624	1884
85°	843	1229	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.4
10°-20°	206.7	9.6
20°-30°	307.6	14.3
30°-40°	363.7	16.9
40°-50°	373.9	17.3
50°-60°	341.6	15.8
60°-70°	273.3	12.7
70°-80°	171.5	8.0
80°-90°	44.7	2.1
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°	587.3	27.2
0°-40°	951.0	44.1
0°-60°	1666.5	77.3
0°-90°	2156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	766	766	775	770	763	73
15°	728	729	733	737	739	205
25°	652	656	667	678	687	300
35°	552	560	580	602	615	345
45°	440	452	481	517	536	339
55°	325	341	381	422	444	291
65°	213	232	277	319	341	211
75°	110	131	169	194	204	117
85°	27	35	40	39	39	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.5	769.5	769.5	769.5	769.5
2.5°	785.3	782.1	772.7	766.4	763.3
5°	766.4	766.4	774.8	769.5	763.3
7.5°	760.1	760.1	760.1	775.8	760.1
10°	751.7	752.8	753.8	760.1	753.8
12.5°	742.3	742.3	744.4	746.5	747.5
15°	727.6	728.7	732.9	737.0	739.1
17.5°	711.9	715.0	720.3	725.5	729.7
20°	693.0	697.2	703.5	711.9	716.1
22.5°	673.1	677.3	685.7	695.1	702.4
25°	652.1	656.3	666.8	678.3	686.7
27.5°	628.0	633.3	645.8	661.6	669.9
30°	603.9	610.2	624.9	642.7	652.1
32.5°	578.7	586.1	602.8	622.8	634.3
35°	552.5	559.9	579.8	601.8	615.4
37.5°	525.3	533.7	555.7	580.8	595.5
40°	497.0	506.4	531.6	558.8	575.6
42.5°	468.6	479.1	506.4	538.9	555.7
45°	440.3	451.9	481.2	516.9	535.7
47.5°	411.0	424.6	455.0	494.9	513.7
50°	382.7	396.3	430.9	471.8	490.7
52.5°	353.3	369.0	405.7	447.7	467.6
55°	325.0	340.7	380.6	422.5	443.5
57.5°	296.7	312.4	354.4	397.4	418.3
60°	268.4	285.2	329.2	371.1	393.2
62.5°	240.1	257.9	303.0	346.0	367.0
65°	212.8	231.7	276.8	318.7	340.7
67.5°	186.6	206.5	250.6	291.5	313.5
70°	160.4	180.3	223.3	263.2	285.2
72.5°	135.2	155.2	197.1	232.8	249.5
75°	110.1	131.1	168.8	194.0	204.4
77.5°	86.0	106.9	139.4	156.2	167.7
80°	64.0	81.8	104.8	117.4	121.6
82.5°	44.0	58.7	73.4	76.5	78.6
85°	27.3	34.6	39.8	38.8	38.8
87.5°	12.6	13.6	11.5	8.4	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)