

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: P259442

Luminaire Tested: **22CZ-LD5-20-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259442
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-L82765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2291.0 lumens
Efficiency: N/A
Efficacy: 143.2 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

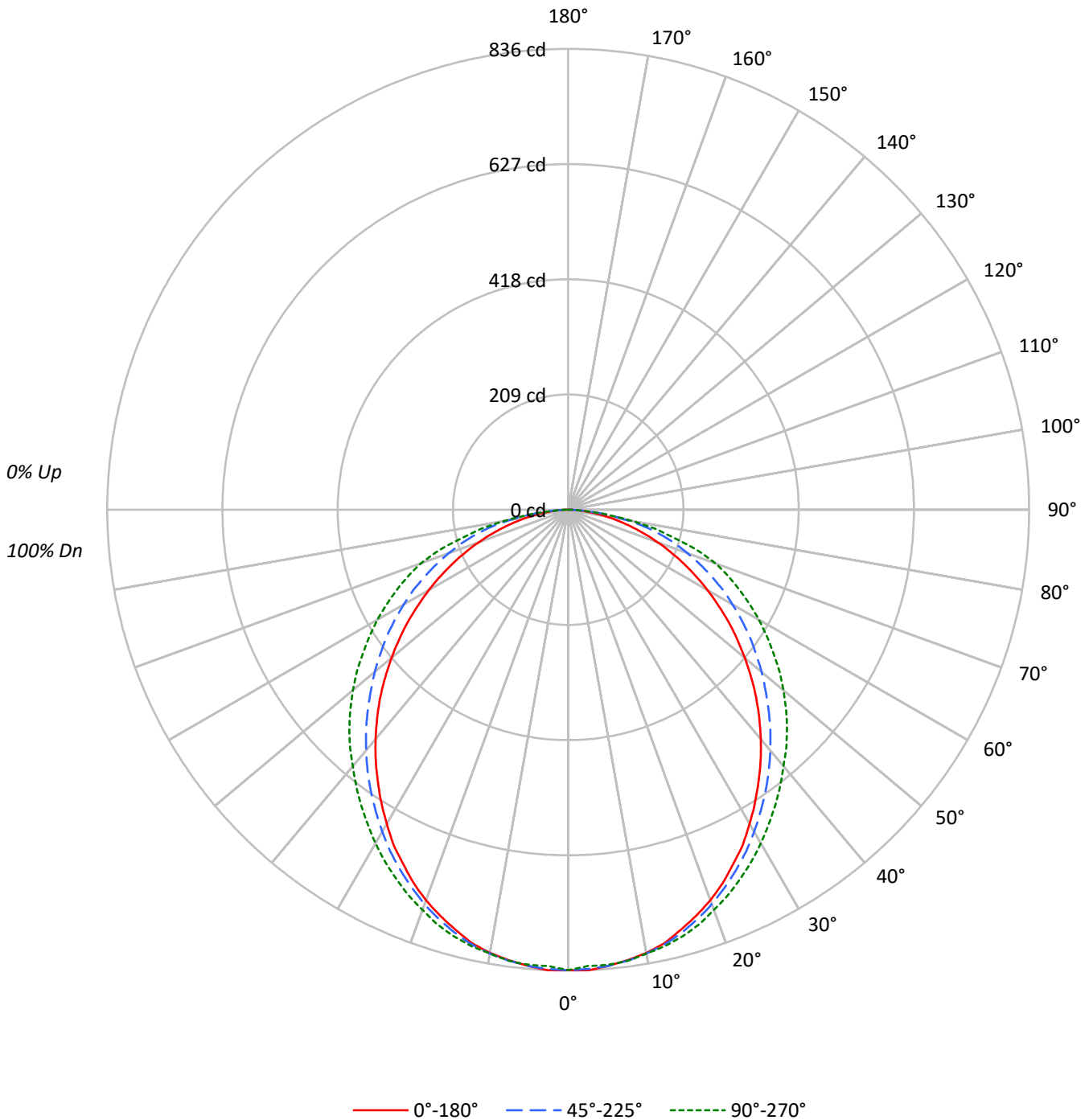
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2248	2248	2248
5°	2244	2244	2238
10°	2231	2234	2234
15°	2198	2213	2232
20°	2159	2181	2212
25°	2104	2140	2192
30°	2045	2096	2171
35°	1977	2050	2151
40°	1910	2002	2134
45°	1834	1956	2136
50°	1751	1917	2133
55°	1667	1884	2132
60°	1569	1854	2150
65°	1472	1829	2179
70°	1360	1810	2234
75°	1224	1797	2071
80°	1074	1671	1807
85°	883	1257	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.4
10°-20°	224.1	9.8
20°-30°	332.8	14.5
30°-40°	391.7	17.1
40°-50°	399.3	17.4
50°-60°	360.2	15.7
60°-70°	283.7	12.4
70°-80°	175.0	7.6
80°-90°	45.4	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°	635.7	27.7
0°-40°	1027.4	44.8
0°-60°	1786.9	78.0
0°-90°	2291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	831	832	831	830	829	79
15°	789	792	794	799	801	222
25°	709	713	721	733	738	327
35°	602	608	624	644	655	377
45°	482	490	514	545	561	372
55°	355	368	402	438	454	317
65°	231	248	287	324	342	229
75°	118	138	173	193	199	126
85°	29	36	41	38	36	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.2	835.2	835.2	835.2	835.2
2.5°	836.3	836.3	834.1	831.9	828.6
5°	830.8	831.9	830.8	829.7	828.6
7.5°	824.2	825.3	825.3	825.3	825.3
10°	816.5	817.6	817.6	817.6	817.6
12.5°	805.5	806.6	807.7	808.8	811.0
15°	789.0	792.3	794.5	798.9	801.1
17.5°	772.5	775.8	779.1	784.6	789.0
20°	753.8	756.0	761.5	768.1	772.5
22.5°	732.9	736.2	741.7	750.5	757.1
25°	708.7	713.1	720.8	732.9	738.4
27.5°	685.6	688.9	698.8	712.0	719.7
30°	658.0	662.4	674.5	691.1	698.8
32.5°	630.5	636.0	649.2	667.9	676.7
35°	601.9	608.5	623.9	643.7	654.7
37.5°	573.3	579.9	597.5	619.5	631.6
40°	543.6	550.2	570.0	594.2	607.4
42.5°	512.8	520.5	542.5	570.0	585.4
45°	482.0	489.7	513.9	544.7	561.2
47.5°	450.1	458.9	485.3	519.4	535.9
50°	418.2	428.1	457.8	493.0	509.5
52.5°	386.2	397.2	429.2	465.5	483.1
55°	355.4	367.5	401.6	438.0	454.5
57.5°	322.4	336.7	373.0	408.2	427.0
60°	291.6	307.0	344.4	379.6	399.4
62.5°	260.8	277.3	316.9	352.1	370.8
65°	231.1	247.6	287.2	323.5	342.2
67.5°	201.4	220.1	258.6	294.9	313.6
70°	172.8	192.6	230.0	265.2	283.9
72.5°	145.3	165.1	202.5	235.5	246.5
75°	117.7	137.6	172.8	192.6	199.2
77.5°	92.4	111.1	142.0	154.1	162.9
80°	69.3	85.8	107.8	115.5	116.6
82.5°	47.3	61.6	74.8	75.9	74.8
85°	28.6	36.3	40.7	38.5	36.3
87.5°	13.2	14.3	13.2	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)