

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: P258605

Luminaire Tested: **14CZ-LD5-25-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-UNV-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2257.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

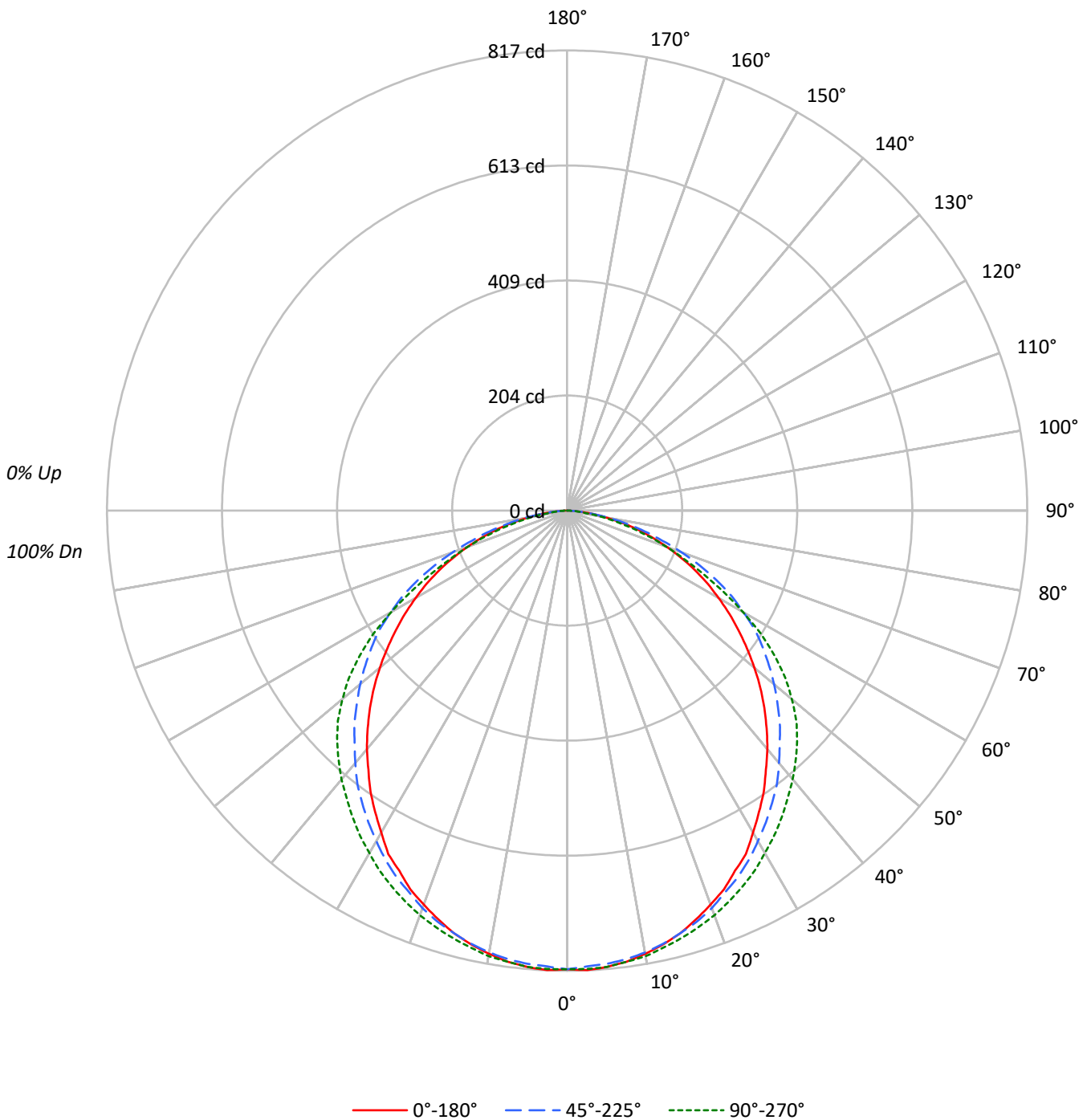
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2192	2192	2192
5°	2197	2182	2197
10°	2183	2177	2195
15°	2164	2164	2189
20°	2132	2151	2189
25°	2094	2131	2187
30°	2050	2105	2182
35°	1999	2083	2182
40°	1943	2056	2189
45°	1884	2033	2198
50°	1816	2008	2180
55°	1743	1989	2109
60°	1671	1946	1940
65°	1594	1863	1700
70°	1479	1699	1471
75°	1342	1481	1214
80°	1069	1173	897
85°	756	651	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	3.4
10°-20°	220.2	9.8
20°-30°	331.9	14.7
30°-40°	397.9	17.6
40°-50°	412.9	18.3
50°-60°	372.4	16.5
60°-70°	271.7	12.0
70°-80°	142.5	6.3
80°-90°	30.4	1.3
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°	629.2	27.9
0°-40°	1027.1	45.5
0°-60°	1812.4	80.3
0°-90°	2257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	813	811	808	813	813	77
15°	777	777	777	786	786	219
25°	705	709	718	733	737	326
35°	609	615	634	658	664	380
45°	495	505	534	566	578	382
55°	372	385	424	452	450	333
65°	250	265	293	282	267	247
75°	129	147	142	124	117	135
85°	24	30	21	18	17	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.5	814.5	814.5	814.5	814.5
2.5°	816.7	814.5	810.0	814.5	814.5
5°	813.4	811.1	807.8	813.4	813.4
7.5°	807.8	805.6	803.4	808.9	807.8
10°	798.9	797.8	796.7	803.4	803.4
12.5°	788.9	788.9	787.8	795.6	794.5
15°	776.7	776.7	776.7	785.6	785.6
17.5°	761.1	763.3	765.5	775.5	775.5
20°	744.4	746.6	751.1	763.3	764.4
22.5°	727.7	728.8	733.3	747.7	751.1
25°	705.4	708.8	717.7	733.3	736.6
27.5°	687.6	688.8	698.8	716.6	721.0
30°	659.8	667.6	677.6	697.7	702.1
32.5°	634.2	640.9	656.5	677.6	684.3
35°	608.6	615.3	634.2	657.6	664.3
37.5°	579.7	589.7	612.0	635.3	643.1
40°	553.0	561.9	585.3	614.2	623.1
42.5°	524.1	533.0	558.6	590.8	600.9
45°	495.1	505.2	534.1	566.4	577.5
47.5°	465.1	476.2	506.3	541.9	551.9
50°	433.9	446.2	479.6	516.3	520.7
52.5°	402.8	416.1	451.8	484.0	488.5
55°	371.6	385.0	423.9	451.8	449.5
57.5°	341.6	356.1	396.1	410.6	408.4
60°	310.4	326.0	361.6	368.3	360.5
62.5°	281.5	296.0	329.4	323.8	313.8
65°	250.4	264.8	292.6	281.5	267.0
67.5°	219.2	237.0	254.8	235.9	224.8
70°	188.0	208.1	215.9	196.9	186.9
72.5°	158.0	179.1	176.9	158.0	151.3
75°	129.1	146.9	142.4	123.5	116.8
77.5°	97.9	117.9	107.9	92.4	86.8
80°	69.0	86.8	75.7	62.3	57.9
82.5°	45.6	57.9	46.7	36.7	33.4
85°	24.5	30.0	21.1	17.8	16.7
87.5°	10.0	8.9	7.8	7.8	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)