

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: P258573

Luminaire Tested: **14CZ-LD5-25-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258573
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-L93050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2258.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

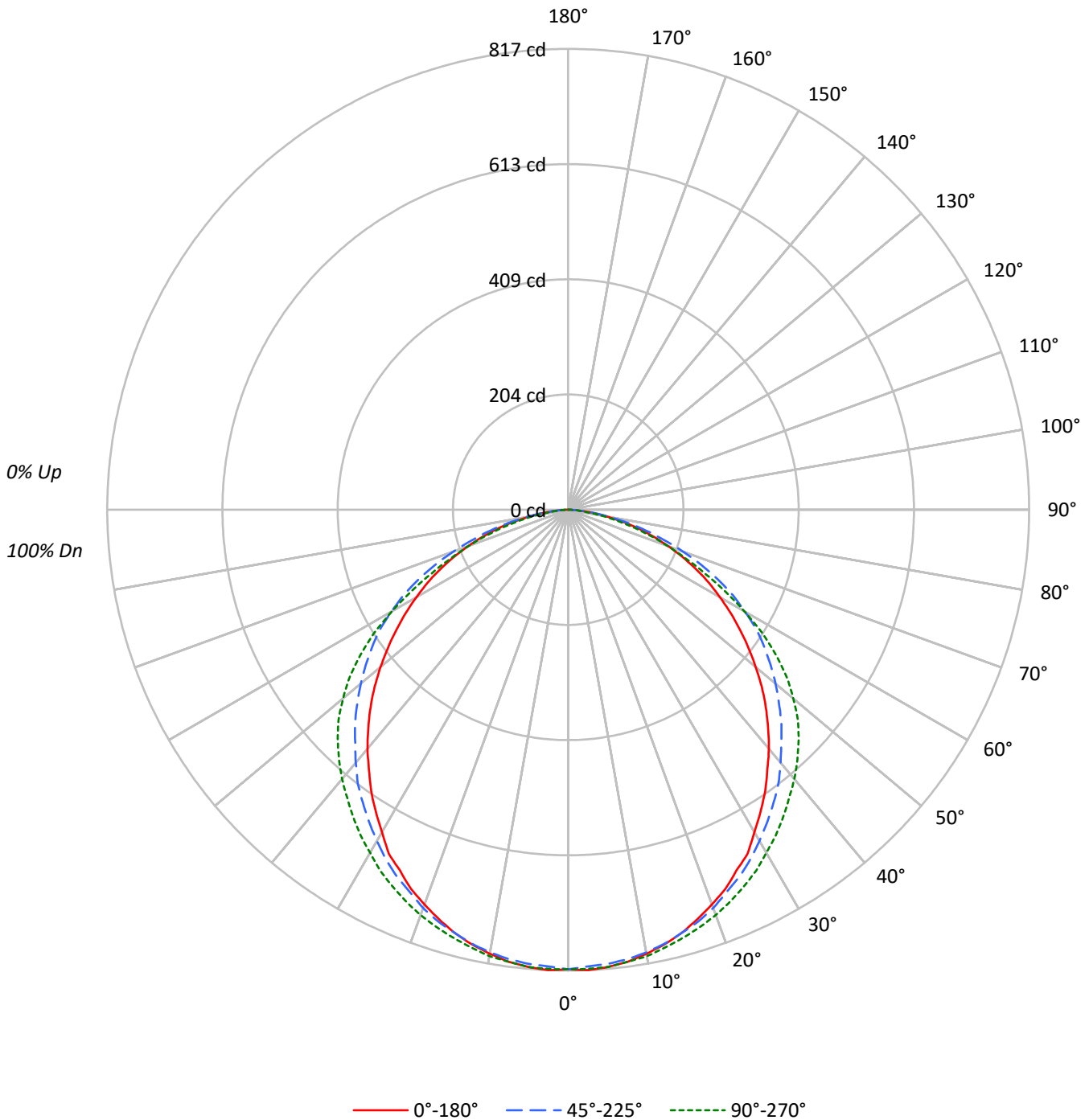
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2193	2193	2193
5°	2198	2183	2198
10°	2184	2178	2196
15°	2165	2165	2189
20°	2133	2152	2190
25°	2096	2132	2188
30°	2051	2106	2183
35°	2000	2084	2183
40°	1944	2057	2190
45°	1885	2033	2199
50°	1817	2009	2181
55°	1744	1990	2110
60°	1672	1947	1941
65°	1595	1864	1701
70°	1480	1699	1471
75°	1342	1482	1215
80°	1069	1173	897
85°	756	655	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	3.4
10°-20°	220.3	9.8
20°-30°	332.1	14.7
30°-40°	398.1	17.6
40°-50°	413.1	18.3
50°-60°	372.6	16.5
60°-70°	271.8	12.0
70°-80°	142.6	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°	629.4	27.9
0°-40°	1027.5	45.5
0°-60°	1813.2	80.3
0°-90°	2258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	814	812	808	814	814	77
15°	777	777	777	786	786	219
25°	706	709	718	734	737	326
35°	609	616	634	658	665	380
45°	495	505	534	567	578	382
55°	372	385	424	452	450	333
65°	250	265	293	282	267	248
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°	814.8	814.8	814.8	814.8	814.8
2.5°	817.1	814.8	810.4	814.8	814.8
5°	813.7	811.5	808.2	813.7	813.7
7.5°	808.2	805.9	803.7	809.3	808.2
10°	799.3	798.2	797.0	803.7	803.7
12.5°	789.2	789.2	788.1	795.9	794.8
15°	777.0	777.0	777.0	785.9	785.9
17.5°	761.4	763.6	765.9	775.9	775.9
20°	744.7	746.9	751.4	763.6	764.8
22.5°	728.0	729.1	733.6	748.1	751.4
25°	705.8	709.1	718.0	733.6	736.9
27.5°	687.9	689.1	699.1	716.9	721.3
30°	660.1	667.9	677.9	698.0	702.4
32.5°	634.5	641.2	656.8	677.9	684.6
35°	608.9	615.6	634.5	657.9	664.6
37.5°	580.0	590.0	612.2	635.6	643.4
40°	553.3	562.2	585.5	614.5	623.4
42.5°	524.3	533.2	558.8	591.1	601.1
45°	495.4	505.4	534.3	566.6	577.7
47.5°	465.3	476.4	506.5	542.1	552.1
50°	434.1	446.4	479.8	516.5	521.0
52.5°	403.0	416.3	452.0	484.2	488.7
55°	371.8	385.2	424.1	452.0	449.7
57.5°	341.7	356.2	396.3	410.8	408.5
60°	310.6	326.2	361.8	368.5	360.7
62.5°	281.6	296.1	329.5	323.9	313.9
65°	250.5	264.9	292.8	281.6	267.2
67.5°	219.3	237.1	254.9	236.0	224.9
70°	188.1	208.2	216.0	197.0	187.0
72.5°	158.1	179.2	177.0	158.1	151.4
75°	129.1	146.9	142.5	123.6	116.9
77.5°	98.0	118.0	108.0	92.4	86.8
80°	69.0	86.8	75.7	62.3	57.9
82.5°	45.6	57.9	46.8	36.7	33.4
85°	24.5	30.1	21.2	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)