

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: P259133

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2371.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

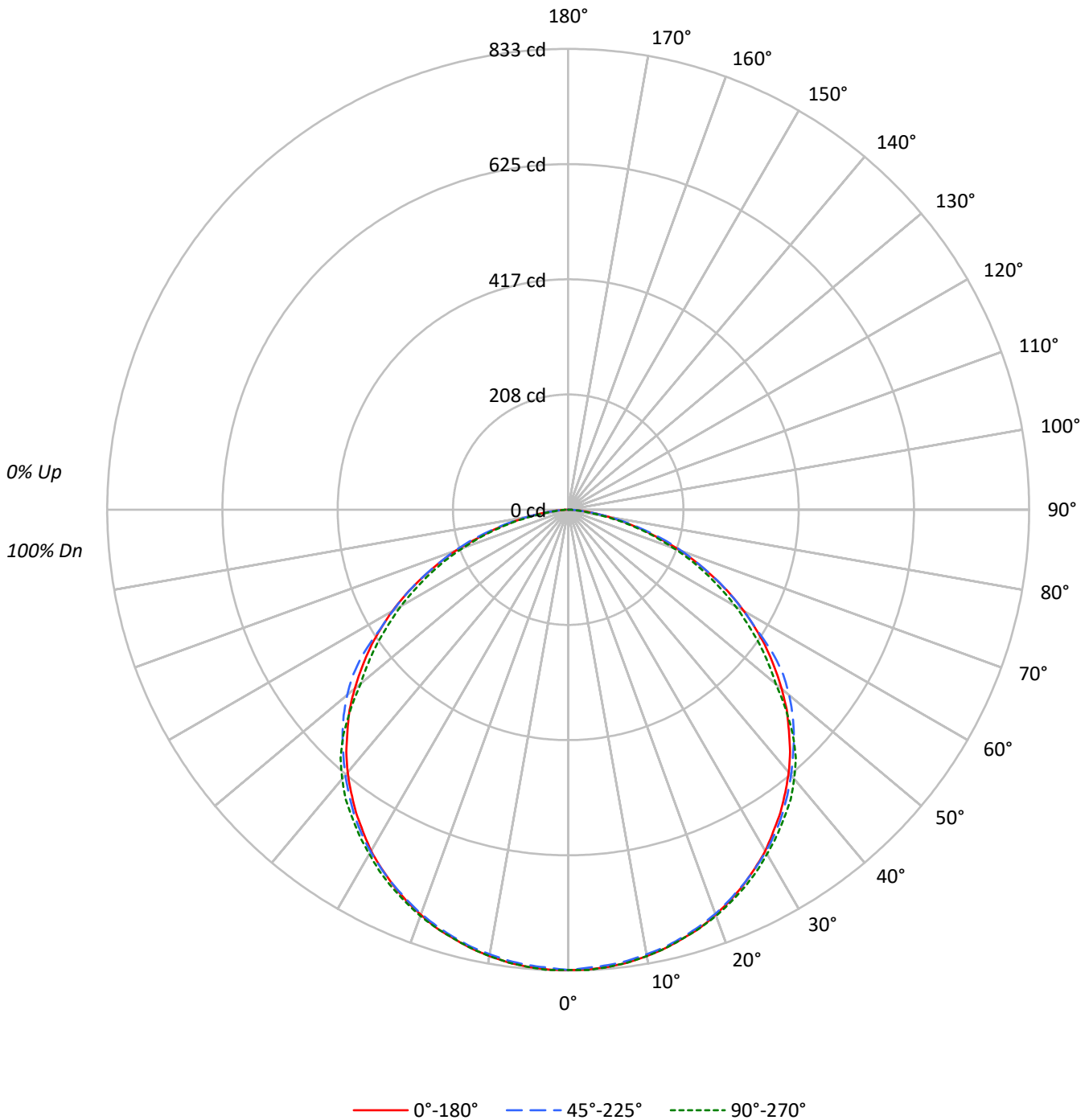
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2239	2239	2239
5°	2241	2232	2241
10°	2238	2230	2238
15°	2235	2228	2235
20°	2231	2226	2238
25°	2222	2220	2237
30°	2214	2219	2234
35°	2195	2213	2235
40°	2178	2200	2232
45°	2146	2194	2185
50°	2108	2182	2051
55°	2054	2114	1974
60°	1975	1971	1880
65°	1851	1861	1759
70°	1699	1718	1592
75°	1428	1495	1361
80°	1133	1158	958
85°	744	645	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.3
10°-20°	226.5	9.6
20°-30°	345.8	14.6
30°-40°	421.9	17.8
40°-50°	441.2	18.6
50°-60°	390.6	16.5
60°-70°	287.6	12.1
70°-80°	148.9	6.3
80°-90°	29.7	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°	651.1	27.5
0°-40°	1073.0	45.3
0°-60°	1904.8	80.3
0°-90°	2371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	830	830	826	830	830	79
15°	802	802	800	803	802	227
25°	748	748	748	752	753	345
35°	668	670	674	680	680	418
45°	564	569	577	582	574	435
55°	438	446	450	427	421	390
65°	291	308	292	281	276	288
75°	137	147	144	135	131	147
85°	24	26	21	18	18	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.0	832.0	832.0	832.0	832.0
2.5°	832.0	832.0	828.8	832.0	832.8
5°	829.6	829.6	826.4	829.6	829.6
7.5°	825.6	824.8	822.4	825.6	825.6
10°	819.2	819.2	816.0	820.0	819.2
12.5°	811.9	811.1	809.5	812.8	811.9
15°	802.3	802.3	799.9	803.1	802.3
17.5°	792.7	791.9	789.5	792.7	792.7
20°	779.0	778.2	777.4	780.6	781.4
22.5°	764.6	763.8	763.0	767.8	767.8
25°	748.5	748.5	747.7	752.5	753.3
27.5°	730.8	730.8	731.6	738.1	737.3
30°	712.4	712.4	714.0	718.8	718.8
32.5°	689.9	691.5	694.7	700.3	700.3
35°	668.2	669.8	673.8	680.2	680.2
37.5°	644.1	646.5	650.5	658.6	660.2
40°	620.0	621.6	626.4	635.3	635.3
42.5°	593.5	595.1	601.5	610.4	608.8
45°	563.8	568.6	576.6	581.5	574.2
47.5°	535.7	538.9	550.1	544.5	532.5
50°	503.6	510.0	521.2	501.1	489.9
52.5°	470.6	477.9	489.9	461.8	455.4
55°	437.7	446.5	450.5	427.3	420.8
57.5°	402.4	412.0	404.0	390.3	383.9
60°	367.0	378.3	366.2	353.4	349.4
62.5°	330.1	342.9	329.3	318.0	312.4
65°	290.7	308.4	292.3	281.1	276.3
67.5°	252.2	270.6	253.8	244.1	240.9
70°	216.0	226.5	218.4	208.8	202.4
72.5°	172.7	183.1	181.5	171.1	167.0
75°	137.3	147.0	143.8	134.9	130.9
77.5°	102.0	112.4	109.2	98.8	97.2
80°	73.1	80.3	74.7	65.1	61.8
82.5°	45.8	51.4	44.2	36.9	35.3
85°	24.1	25.7	20.9	18.5	17.7
87.5°	8.0	8.8	8.8	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)