

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: P259059

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259059
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-L83050-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2417.0 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

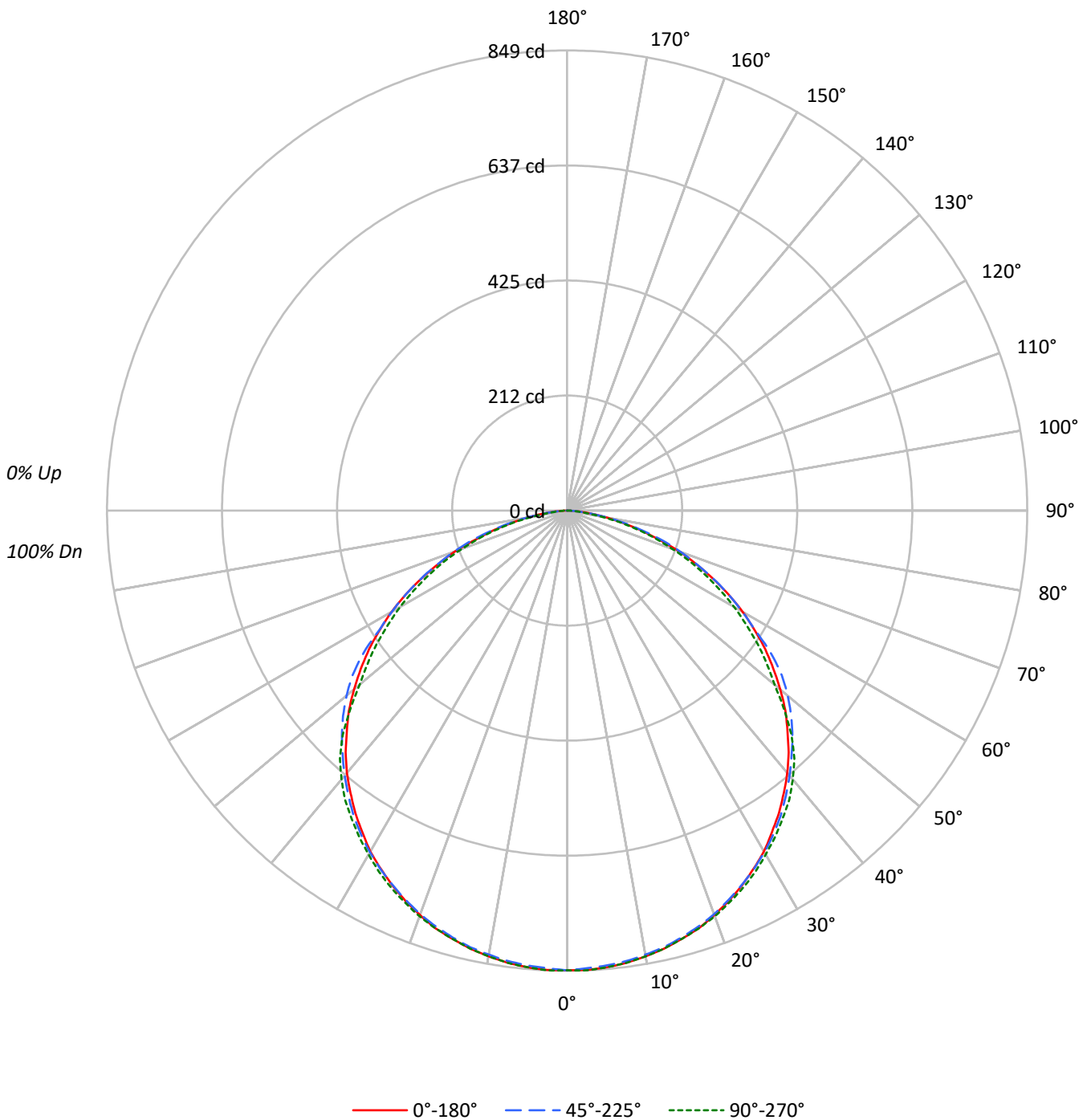
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2282	2282	2282
5°	2284	2276	2284
10°	2282	2273	2282
15°	2279	2272	2279
20°	2274	2269	2281
25°	2265	2263	2280
30°	2257	2261	2277
35°	2238	2257	2278
40°	2220	2243	2275
45°	2187	2237	2228
50°	2149	2224	2091
55°	2093	2155	2013
60°	2013	2009	1917
65°	1887	1897	1793
70°	1733	1752	1623
75°	1456	1523	1387
80°	1155	1179	976
85°	760	658	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.3
10°-20°	230.9	9.6
20°-30°	352.5	14.6
30°-40°	430.1	17.8
40°-50°	449.8	18.6
50°-60°	398.2	16.5
60°-70°	293.2	12.1
70°-80°	151.8	6.3
80°-90°	30.2	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°	663.7	27.5
0°-40°	1093.8	45.3
0°-60°	1941.7	80.3
0°-90°	2417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	846	846	842	846	846	80
15°	818	818	815	819	818	231
25°	763	763	762	767	768	352
35°	681	683	687	693	693	426
45°	575	580	588	593	585	444
55°	446	455	459	436	429	398
65°	296	314	298	286	282	294
75°	140	150	146	138	133	149
85°	25	26	21	19	18	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.2	848.2	848.2	848.2	848.2
2.5°	848.2	848.2	844.9	848.2	849.0
5°	845.7	845.7	842.4	845.7	845.7
7.5°	841.6	840.8	838.3	841.6	841.6
10°	835.1	835.1	831.8	835.9	835.1
12.5°	827.7	826.9	825.2	828.5	827.7
15°	817.9	817.9	815.4	818.7	817.9
17.5°	808.1	807.2	804.8	808.1	808.1
20°	794.1	793.3	792.5	795.8	796.6
22.5°	779.4	778.6	777.8	782.7	782.7
25°	763.0	763.0	762.2	767.1	767.9
27.5°	745.0	745.0	745.8	752.4	751.6
30°	726.2	726.2	727.8	732.7	732.7
32.5°	703.3	704.9	708.2	713.9	713.9
35°	681.2	682.8	686.9	693.4	693.4
37.5°	656.6	659.0	663.1	671.3	673.0
40°	632.0	633.7	638.6	647.6	647.6
42.5°	605.0	606.7	613.2	622.2	620.6
45°	574.7	579.6	587.8	592.7	585.4
47.5°	546.1	549.3	560.8	555.1	542.8
50°	513.3	519.9	531.3	510.9	499.4
52.5°	479.8	487.1	499.4	470.7	464.2
55°	446.2	455.2	459.3	435.5	429.0
57.5°	410.2	420.0	411.8	397.9	391.3
60°	374.1	385.6	373.3	360.2	356.1
62.5°	336.5	349.6	335.7	324.2	318.5
65°	296.4	314.4	298.0	286.5	281.6
67.5°	257.1	275.9	258.7	248.9	245.6
70°	220.2	230.9	222.7	212.9	206.3
72.5°	176.0	186.7	185.0	174.4	170.3
75°	140.0	149.8	146.5	137.5	133.4
77.5°	104.0	114.6	111.3	100.7	99.1
80°	74.5	81.9	76.1	66.3	63.0
82.5°	46.7	52.4	45.0	37.7	36.0
85°	24.6	26.2	21.3	18.8	18.0
87.5°	8.2	9.0	9.0	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)