

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: P258962

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2367.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

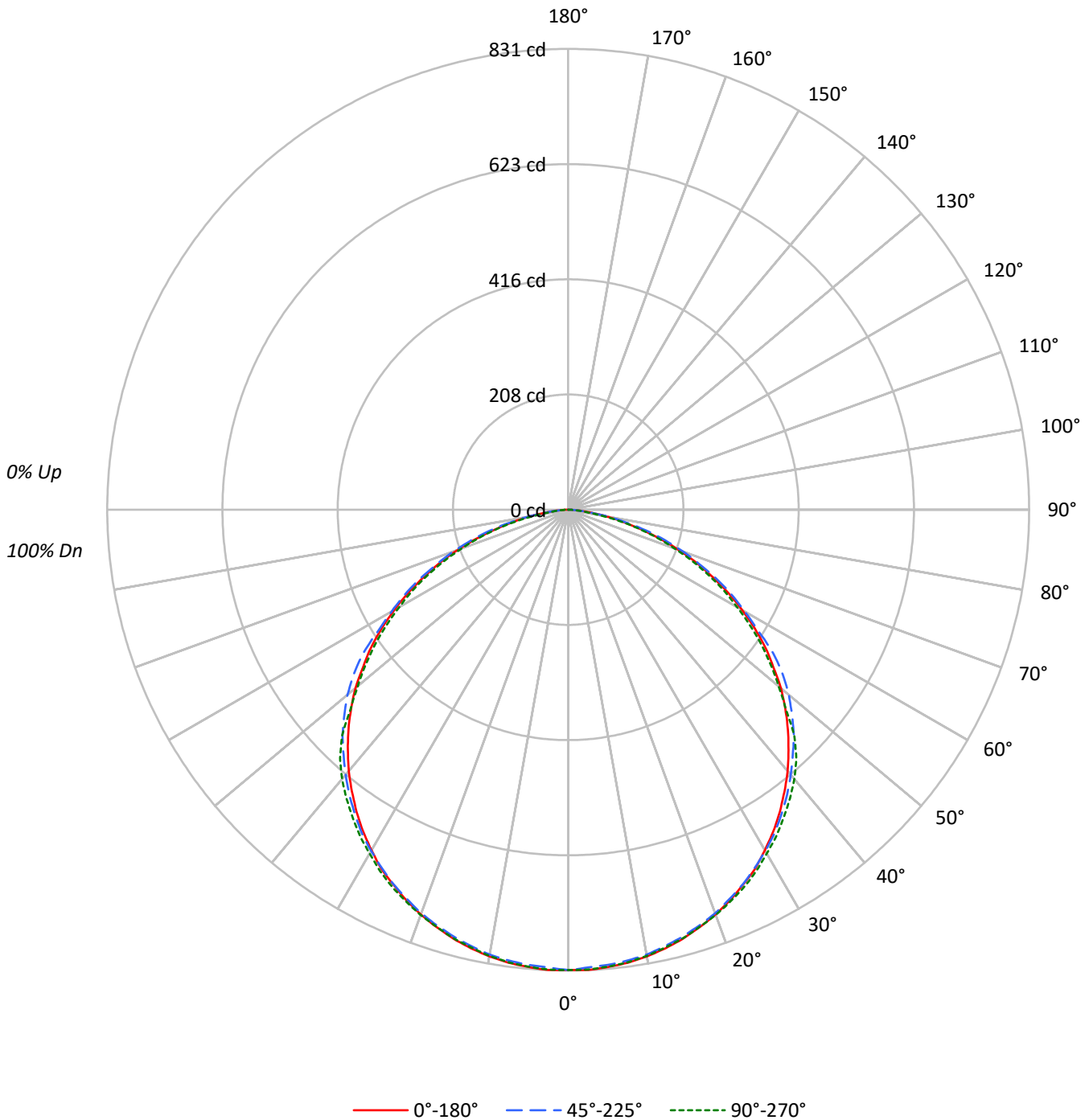
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2234	2234	2234
5°	2236	2226	2234
10°	2235	2226	2232
15°	2231	2220	2229
20°	2225	2218	2227
25°	2215	2213	2229
30°	2203	2208	2224
35°	2185	2202	2225
40°	2162	2192	2228
45°	2132	2190	2193
50°	2096	2174	2074
55°	2038	2117	1998
60°	1951	1981	1893
65°	1827	1876	1778
70°	1663	1730	1608
75°	1388	1516	1364
80°	1100	1159	944
85°	713	621	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.3
10°-20°	225.7	9.5
20°-30°	344.6	14.6
30°-40°	420.1	17.7
40°-50°	439.9	18.6
50°-60°	391.3	16.5
60°-70°	288.7	12.2
70°-80°	149.2	6.3
80°-90°	29.0	1.2
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°	648.9	27.4
0°-40°	1068.9	45.2
0°-60°	1900.1	80.3
0°-90°	2367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	828	827	824	827	827	79
15°	801	800	797	800	800	226
25°	746	746	745	751	751	344
35°	665	666	670	678	677	416
45°	560	564	576	581	576	432
55°	434	444	451	432	426	387
65°	287	307	295	285	279	285
75°	134	147	146	134	131	144
85°	23	26	20	18	18	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.1	830.1	830.1	830.1	830.1
2.5°	830.9	830.1	826.3	830.1	830.1
5°	827.8	827.0	823.9	827.0	827.0
7.5°	823.9	823.2	820.1	823.2	823.2
10°	817.8	817.0	814.7	817.8	817.0
12.5°	810.1	810.1	806.2	810.1	808.5
15°	800.8	800.0	796.9	800.0	800.0
17.5°	789.2	788.5	786.1	790.0	788.5
20°	776.9	776.1	774.6	778.4	777.7
22.5°	762.2	762.2	759.9	764.5	764.5
25°	746.0	746.0	745.3	750.7	750.7
27.5°	729.8	728.3	728.3	733.7	734.5
30°	709.0	709.0	710.5	716.7	715.9
32.5°	688.2	688.9	692.0	697.4	698.2
35°	665.0	665.8	670.4	678.1	677.4
37.5°	640.3	642.6	648.0	656.5	656.5
40°	615.6	617.2	624.1	633.4	634.2
42.5°	587.9	591.7	599.4	610.2	608.7
45°	560.1	564.0	575.5	580.9	576.3
47.5°	530.8	535.4	547.0	547.8	532.3
50°	500.7	506.1	519.2	503.8	495.3
52.5°	466.0	476.0	487.6	466.0	460.6
55°	434.3	443.6	451.3	432.0	425.9
57.5°	398.9	411.2	405.8	396.5	388.8
60°	362.6	375.7	368.0	358.7	351.8
62.5°	325.6	340.2	332.5	323.3	317.1
65°	287.0	307.1	294.7	284.7	279.3
67.5°	250.7	270.0	255.4	247.6	242.2
70°	211.4	227.6	219.9	209.8	204.4
72.5°	172.8	185.2	182.8	172.0	168.2
75°	133.5	147.4	145.8	134.2	131.2
77.5°	100.3	113.4	108.8	99.5	95.7
80°	71.0	79.5	74.8	64.0	60.9
82.5°	43.2	50.1	42.4	36.3	33.2
85°	23.1	25.5	20.1	18.5	17.7
87.5°	8.5	8.5	8.5	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)