

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: P258769

Luminaire Tested: **14CZ-LD5-20-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2214.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

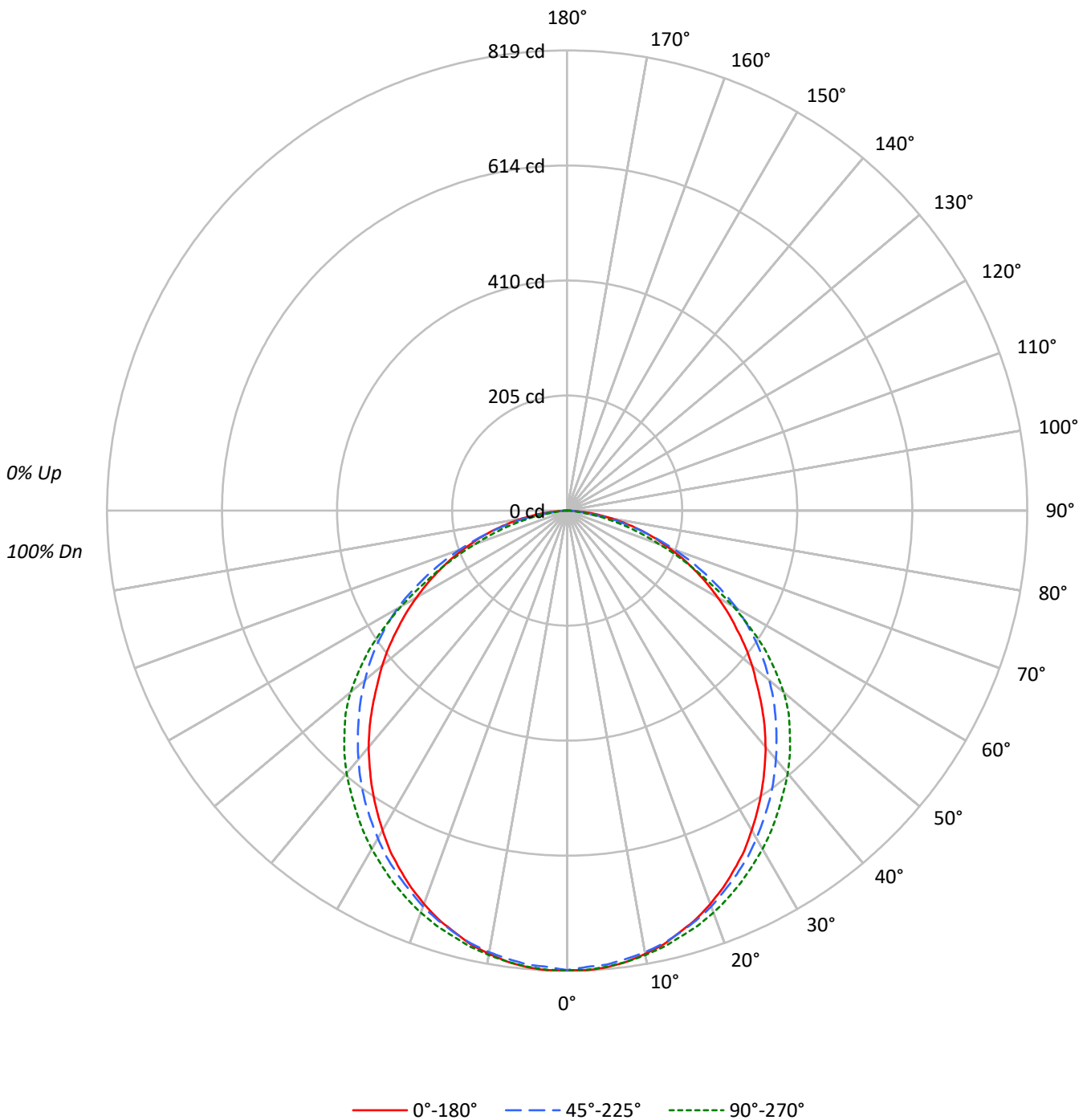
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2201	2201	2201
5°	2204	2190	2201
10°	2189	2181	2194
15°	2163	2166	2185
20°	2133	2147	2181
25°	2091	2121	2170
30°	2041	2094	2161
35°	1987	2064	2149
40°	1930	2031	2145
45°	1862	1997	2133
50°	1801	1966	2106
55°	1731	1935	2014
60°	1667	1879	1837
65°	1596	1759	1614
70°	1506	1599	1366
75°	1406	1385	1128
80°	1238	1071	826
85°	976	519	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.5
10°-20°	220.2	9.9
20°-30°	330.4	14.9
30°-40°	393.9	17.8
40°-50°	405.7	18.3
50°-60°	361.6	16.3
60°-70°	260.5	11.8
70°-80°	136.3	6.2
80°-90°	28.2	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°	627.8	28.4
0°-40°	1021.7	46.1
0°-60°	1789.0	80.8
0°-90°	2214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	816	814	811	816	815	77
15°	776	777	777	785	784	219
25°	704	708	714	728	731	324
35°	605	613	628	649	654	378
45°	489	500	525	554	560	378
55°	369	381	412	431	429	331
65°	251	260	276	263	254	248
75°	135	142	133	115	108	143
85°	32	28	17	15	15	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.9	817.9	817.9	817.9	817.9
2.5°	818.8	816.9	812.9	817.9	817.9
5°	815.9	813.9	810.9	815.9	814.9
7.5°	810.0	808.0	805.0	810.9	810.0
10°	801.1	800.1	798.1	804.0	803.1
12.5°	791.2	790.2	789.2	795.2	795.2
15°	776.4	777.4	777.4	785.3	784.3
17.5°	762.6	763.6	764.6	774.4	774.4
20°	744.8	745.8	749.8	760.6	761.6
22.5°	726.1	727.1	732.0	744.8	746.8
25°	704.4	708.3	714.3	728.1	731.0
27.5°	682.7	685.7	695.5	711.3	713.3
30°	657.0	663.0	673.8	691.6	695.5
32.5°	631.4	638.3	651.1	670.9	675.8
35°	604.8	612.6	628.4	649.2	654.1
37.5°	577.1	584.0	603.8	625.5	632.4
40°	549.5	556.4	578.1	602.8	610.7
42.5°	519.9	529.8	551.5	579.1	587.0
45°	489.3	500.2	524.8	554.4	560.4
47.5°	457.8	469.6	498.2	527.8	534.7
50°	430.1	441.0	469.6	498.2	503.1
52.5°	400.5	410.4	442.0	465.7	466.6
55°	369.0	380.8	412.4	431.1	429.2
57.5°	340.4	350.2	380.8	390.7	384.8
60°	309.8	318.7	349.2	350.2	341.3
62.5°	280.2	289.1	312.7	305.8	295.0
65°	250.6	259.5	276.2	263.4	253.5
67.5°	222.0	229.9	239.7	223.0	213.1
70°	191.4	202.2	203.2	183.5	173.6
72.5°	164.8	170.7	168.7	150.0	141.1
75°	135.2	142.1	133.2	115.4	108.5
77.5°	107.5	112.5	100.6	83.9	78.9
80°	79.9	82.9	69.1	56.2	53.3
82.5°	54.3	54.3	39.5	30.6	27.6
85°	31.6	27.6	16.8	14.8	14.8
87.5°	10.9	6.9	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)