

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: P275560

Luminaire Tested: **14CZ2-20-S-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-S-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2226.0 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

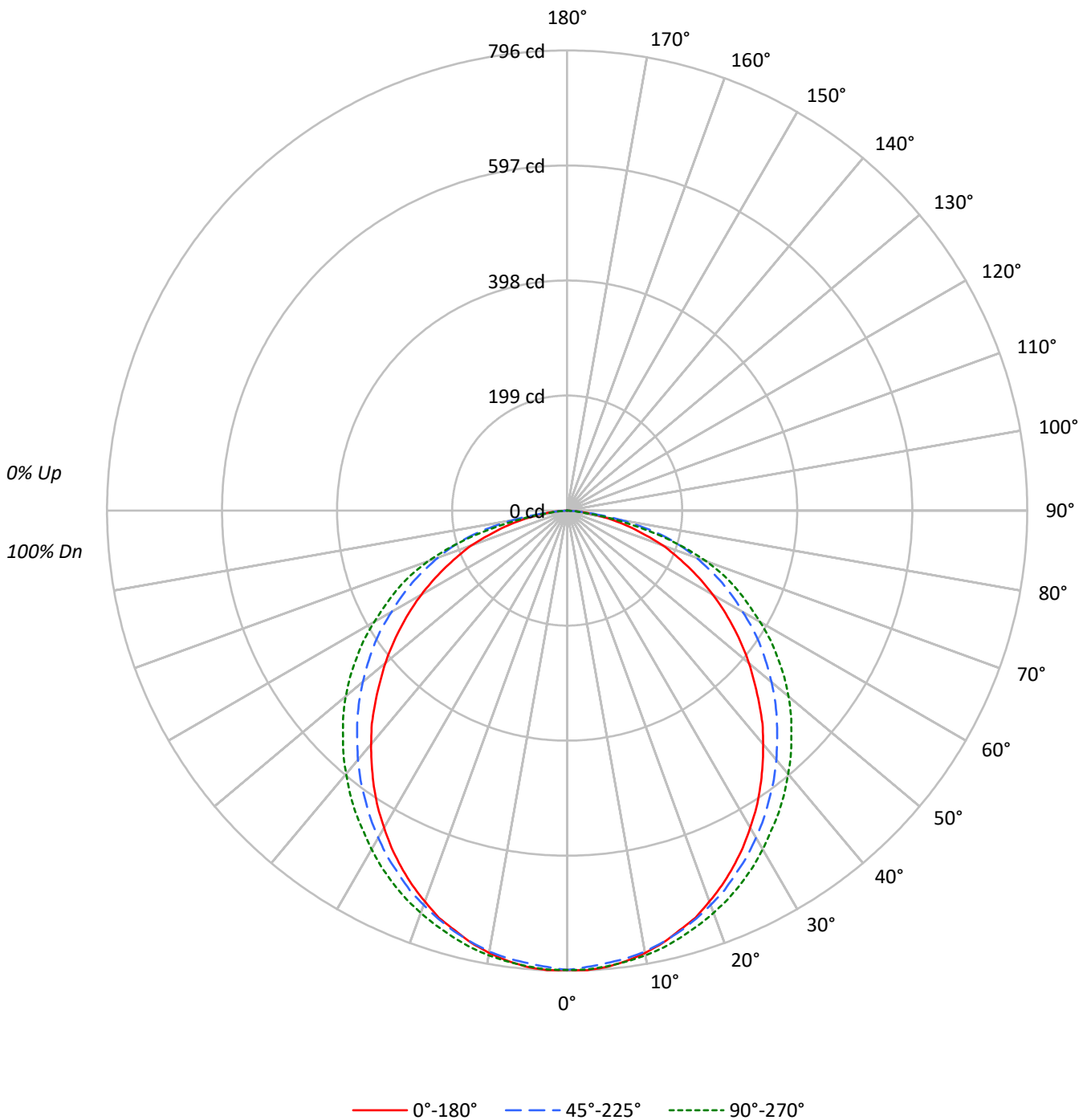
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2138	2138	2138
5°	2140	2123	2138
10°	2123	2117	2135
15°	2094	2100	2128
20°	2061	2080	2121
25°	2019	2055	2114
30°	1968	2030	2102
35°	1914	2001	2096
40°	1853	1977	2090
45°	1785	1953	2087
50°	1719	1931	2093
55°	1647	1916	2087
60°	1568	1889	2073
65°	1476	1883	2073
70°	1389	1867	2015
75°	1205	1825	1722
80°	975	1471	1145
85°	648	513	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.4
10°-20°	213.5	9.6
20°-30°	320.3	14.4
30°-40°	382.1	17.2
40°-50°	395.0	17.7
50°-60°	360.6	16.2
60°-70°	283.8	12.8
70°-80°	165.2	7.4
80°-90°	30.4	1.4
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°	608.9	27.4
0°-40°	990.9	44.5
0°-60°	1746.6	78.5
0°-90°	2226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	792	790	786	792	791	75
15°	752	753	754	764	764	212
25°	680	683	692	709	712	313
35°	583	590	609	632	638	364
45°	469	484	513	542	548	362
55°	351	370	408	438	445	314
65°	232	256	296	319	326	230
75°	116	144	176	172	166	123
85°	21	30	17	13	11	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.6	794.6	794.6	794.6	794.6
2.5°	795.7	793.5	790.2	795.7	794.6
5°	792.4	790.2	785.8	792.4	791.3
7.5°	785.8	783.6	781.4	788.0	786.9
10°	777.0	775.9	774.8	782.5	781.4
12.5°	765.9	765.9	764.8	773.7	773.7
15°	751.6	752.7	753.8	763.7	763.7
17.5°	738.4	737.3	740.6	751.6	752.7
20°	719.6	721.8	726.2	739.5	740.6
22.5°	700.8	703.0	710.8	724.0	727.3
25°	679.9	683.2	692.0	708.6	711.9
27.5°	657.8	662.2	674.3	692.0	695.3
30°	633.5	640.1	653.4	673.2	676.6
32.5°	609.2	615.8	632.4	652.3	656.7
35°	582.7	590.5	609.2	632.4	637.9
37.5°	555.1	565.1	587.2	610.3	617.0
40°	527.6	538.6	562.9	587.2	594.9
42.5°	500.0	511.0	537.5	565.1	572.8
45°	469.1	484.5	513.2	541.9	548.5
47.5°	439.3	455.8	487.8	516.5	525.3
50°	410.6	427.1	461.3	491.1	500.0
52.5°	380.8	398.4	434.8	465.8	473.5
55°	351.0	369.7	408.4	438.2	444.8
57.5°	321.2	341.0	380.8	409.5	417.2
60°	291.4	312.3	351.0	379.7	385.2
62.5°	261.6	283.6	323.4	348.8	354.3
65°	231.8	256.1	295.8	319.0	325.6
67.5°	203.1	227.4	266.0	288.1	293.6
70°	176.6	198.7	237.3	253.8	256.1
72.5°	143.5	171.1	208.6	217.4	211.9
75°	115.9	143.5	175.5	172.2	165.6
77.5°	88.3	115.9	136.9	125.8	117.0
80°	62.9	90.5	94.9	78.4	73.9
82.5°	40.8	62.9	53.0	40.8	33.1
85°	21.0	29.8	16.6	13.2	11.0
87.5°	6.6	4.4	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)