

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: P275684

Luminaire Tested: **14CZ2-25-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275684
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: 14CZ2-25-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2266.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

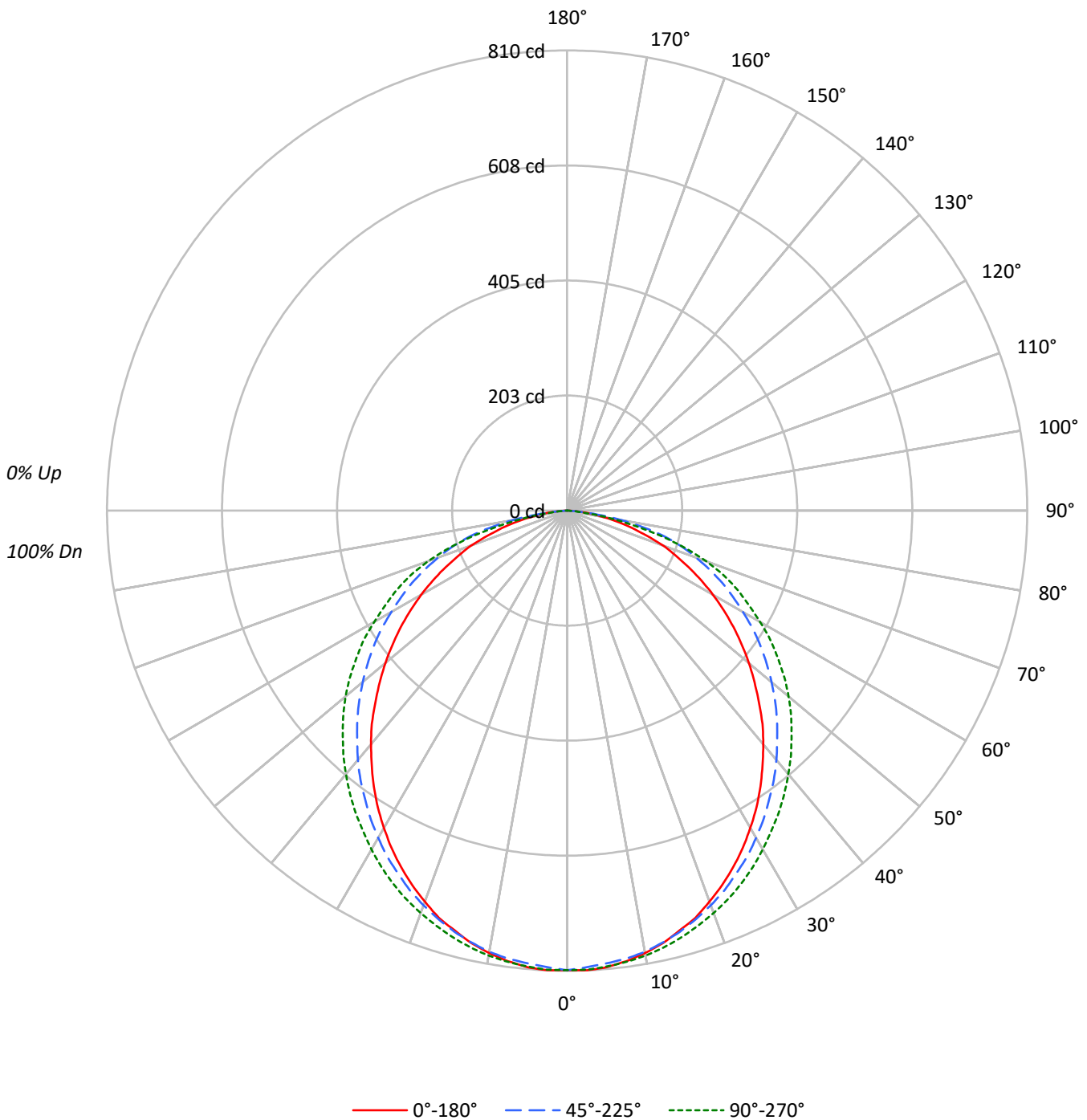
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2177	2177	2177
5°	2179	2161	2176
10°	2161	2155	2173
15°	2131	2138	2166
20°	2098	2117	2159
25°	2055	2091	2152
30°	2004	2067	2140
35°	1949	2037	2133
40°	1886	2013	2127
45°	1817	1988	2125
50°	1750	1966	2130
55°	1676	1950	2124
60°	1596	1923	2110
65°	1502	1917	2110
70°	1415	1901	2051
75°	1227	1857	1752
80°	992	1497	1167
85°	658	522	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.4
10°-20°	217.4	9.6
20°-30°	326.0	14.4
30°-40°	388.9	17.2
40°-50°	402.1	17.7
50°-60°	367.1	16.2
60°-70°	288.9	12.7
70°-80°	168.2	7.4
80°-90°	31.0	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°	619.8	27.4
0°-40°	1008.7	44.5
0°-60°	1777.9	78.5
0°-90°	2266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	807	804	800	807	806	76
15°	765	766	767	778	778	216
25°	692	696	704	721	725	319
35°	593	601	620	644	649	371
45°	478	493	522	552	558	369
55°	357	376	416	446	453	319
65°	236	261	301	325	331	234
75°	118	146	179	175	168	125
85°	21	30	17	14	11	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.9	808.9	808.9	808.9	808.9
2.5°	810.0	807.8	804.4	810.0	808.9
5°	806.7	804.4	799.9	806.7	805.6
7.5°	799.9	797.7	795.4	802.2	801.1
10°	790.9	789.8	788.7	796.6	795.4
12.5°	779.7	779.7	778.6	787.6	787.6
15°	765.1	766.2	767.4	777.5	777.5
17.5°	751.6	750.5	753.9	765.1	766.2
20°	732.5	734.8	739.3	752.7	753.9
22.5°	713.4	715.7	723.5	737.0	740.4
25°	692.1	695.5	704.4	721.3	724.7
27.5°	669.6	674.1	686.5	704.4	707.8
30°	644.9	651.6	665.1	685.3	688.7
32.5°	620.2	626.9	643.8	664.0	668.5
35°	593.2	601.1	620.2	643.8	649.4
37.5°	565.1	575.2	597.7	621.3	628.0
40°	537.0	548.3	573.0	597.7	605.6
42.5°	508.9	520.2	547.1	575.2	583.1
45°	477.5	493.2	522.4	551.6	558.4
47.5°	447.2	464.0	496.6	525.8	534.8
50°	417.9	434.8	469.6	500.0	508.9
52.5°	387.6	405.6	442.7	474.1	482.0
55°	357.3	376.4	415.7	446.0	452.8
57.5°	326.9	347.2	387.6	416.8	424.7
60°	296.6	318.0	357.3	386.5	392.1
62.5°	266.3	288.7	329.2	355.0	360.6
65°	235.9	260.7	301.1	324.7	331.4
67.5°	206.7	231.4	270.8	293.2	298.9
70°	179.8	202.2	241.6	258.4	260.7
72.5°	146.1	174.1	212.3	221.3	215.7
75°	118.0	146.1	178.6	175.3	168.5
77.5°	89.9	118.0	139.3	128.1	119.1
80°	64.0	92.1	96.6	79.8	75.3
82.5°	41.6	64.0	53.9	41.6	33.7
85°	21.3	30.3	16.9	13.5	11.2
87.5°	6.7	4.5	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)