

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: P275686

Luminaire Tested: **14CZ2-25-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275686
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-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2311.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

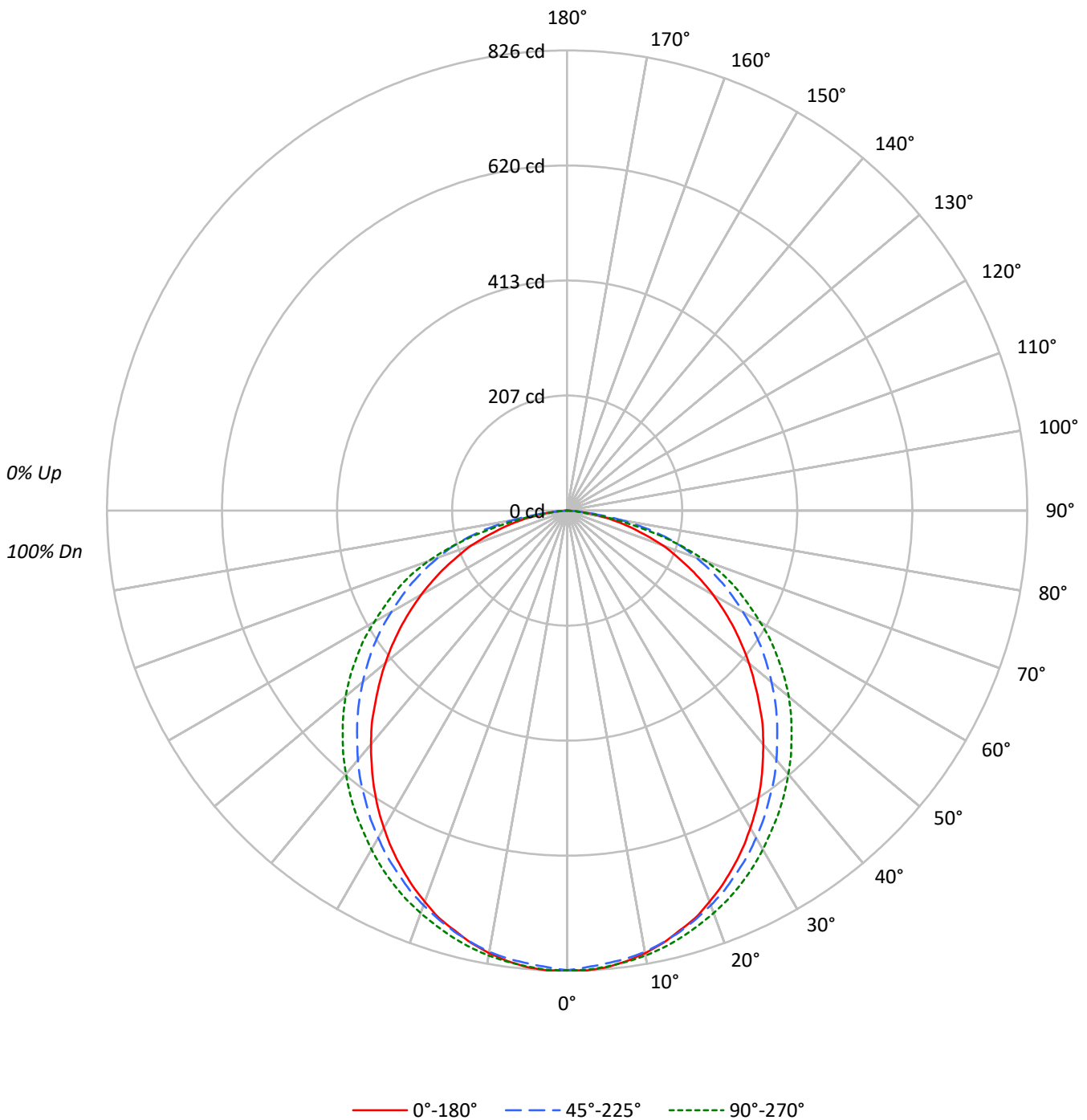
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2220	2220	2220
5°	2222	2204	2219
10°	2204	2198	2217
15°	2174	2180	2209
20°	2139	2159	2202
25°	2096	2133	2195
30°	2044	2108	2183
35°	1987	2078	2176
40°	1924	2053	2170
45°	1853	2028	2167
50°	1784	2005	2173
55°	1710	1989	2167
60°	1628	1961	2152
65°	1532	1955	2152
70°	1442	1939	2091
75°	1251	1894	1787
80°	1012	1526	1190
85°	673	531	355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.4
10°-20°	221.7	9.6
20°-30°	332.5	14.4
30°-40°	396.7	17.2
40°-50°	410.1	17.7
50°-60°	374.4	16.2
60°-70°	294.6	12.7
70°-80°	171.5	7.4
80°-90°	31.6	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°	632.1	27.4
0°-40°	1028.8	44.5
0°-60°	1813.3	78.5
0°-90°	2311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	823	820	816	823	822	78
15°	780	781	783	793	793	220
25°	706	709	718	736	739	325
35°	605	613	632	657	662	378
45°	487	503	533	563	570	376
55°	364	384	424	455	462	326
65°	241	266	307	331	338	239
75°	120	149	182	179	172	128
85°	22	31	17	14	12	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.0	825.0	825.0	825.0	825.0
2.5°	826.1	823.8	820.4	826.1	825.0
5°	822.7	820.4	815.8	822.7	821.6
7.5°	815.8	813.5	811.2	818.1	817.0
10°	806.7	805.5	804.4	812.4	811.2
12.5°	795.2	795.2	794.1	803.2	803.2
15°	780.3	781.4	782.6	792.9	792.9
17.5°	766.6	765.4	768.8	780.3	781.4
20°	747.1	749.4	753.9	767.7	768.8
22.5°	727.6	729.9	737.9	751.7	755.1
25°	705.8	709.3	718.4	735.6	739.1
27.5°	682.9	687.5	700.1	718.4	721.9
30°	657.7	664.6	678.3	698.9	702.4
32.5°	632.5	639.4	656.6	677.2	681.8
35°	605.0	613.0	632.5	656.6	662.3
37.5°	576.3	586.7	609.6	633.6	640.5
40°	547.7	559.2	584.4	609.6	617.6
42.5°	519.1	530.5	558.0	586.7	594.7
45°	487.0	503.0	532.8	562.6	569.5
47.5°	456.0	473.2	506.5	536.2	545.4
50°	426.2	443.4	479.0	509.9	519.1
52.5°	395.3	413.6	451.5	483.5	491.6
55°	364.4	383.8	424.0	454.9	461.8
57.5°	333.4	354.1	395.3	425.1	433.1
60°	302.5	324.3	364.4	394.2	399.9
62.5°	271.6	294.5	335.7	362.1	367.8
65°	240.6	265.8	307.1	331.1	338.0
67.5°	210.8	236.0	276.1	299.1	304.8
70°	183.3	206.2	246.4	263.5	265.8
72.5°	149.0	177.6	216.6	225.7	220.0
75°	120.3	149.0	182.2	178.7	171.9
77.5°	91.7	120.3	142.1	130.6	121.5
80°	65.3	94.0	98.5	81.4	76.8
82.5°	42.4	65.3	55.0	42.4	34.4
85°	21.8	30.9	17.2	13.7	11.5
87.5°	6.9	4.6	2.3	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)