

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: P275687

Luminaire Tested: **14CZ2-25-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275687
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2327.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

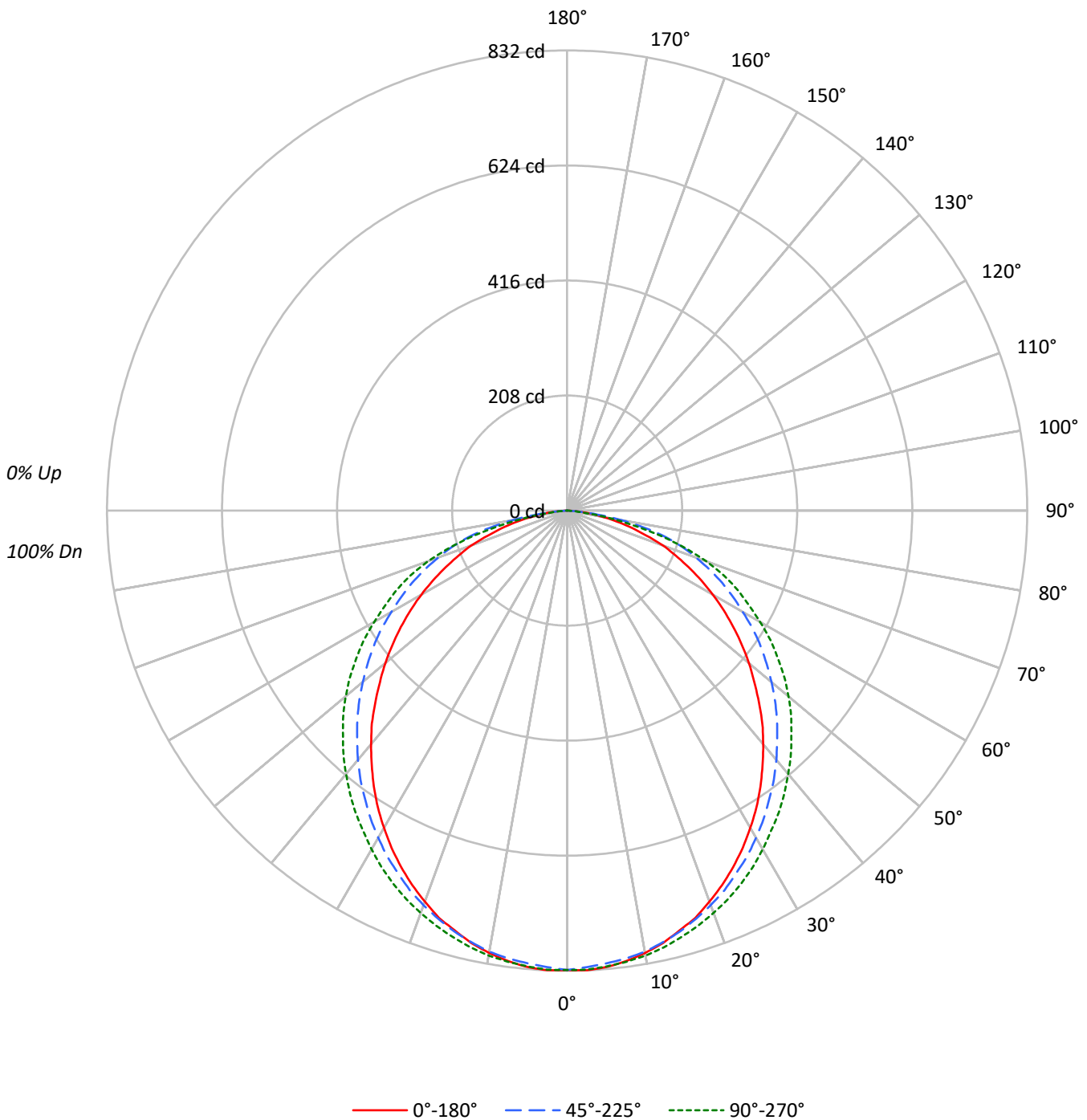
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2235	2235	2235
5°	2238	2219	2234
10°	2219	2213	2232
15°	2189	2195	2224
20°	2154	2174	2217
25°	2110	2148	2210
30°	2058	2122	2197
35°	2001	2092	2191
40°	1937	2067	2185
45°	1866	2042	2182
50°	1797	2019	2188
55°	1721	2003	2182
60°	1639	1975	2167
65°	1543	1969	2167
70°	1452	1952	2106
75°	1259	1907	1800
80°	1020	1537	1198
85°	676	534	355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.4
10°-20°	223.2	9.6
20°-30°	334.8	14.4
30°-40°	399.4	17.2
40°-50°	412.9	17.7
50°-60°	377.0	16.2
60°-70°	296.7	12.7
70°-80°	172.7	7.4
80°-90°	31.8	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°	636.5	27.4
0°-40°	1035.9	44.5
0°-60°	1825.8	78.5
0°-90°	2327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	828	826	822	828	827	79
15°	786	787	788	798	798	222
25°	711	714	723	741	744	327
35°	609	617	637	661	667	381
45°	490	506	536	566	573	379
55°	367	386	427	458	465	328
65°	242	268	309	333	340	241
75°	121	150	183	180	173	129
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°	830.7	830.7	830.7	830.7	830.7
2.5°	831.9	829.5	826.1	831.9	830.7
5°	828.4	826.1	821.5	828.4	827.2
7.5°	821.5	819.2	816.9	823.8	822.6
10°	812.2	811.1	809.9	818.0	816.9
12.5°	800.7	800.7	799.5	808.8	808.8
15°	785.7	786.9	788.0	798.4	798.4
17.5°	771.9	770.7	774.2	785.7	786.9
20°	752.2	754.6	759.2	773.0	774.2
22.5°	732.6	734.9	743.0	756.9	760.3
25°	710.7	714.2	723.4	740.7	744.2
27.5°	687.6	692.3	704.9	723.4	726.9
30°	662.3	669.2	683.0	703.8	707.2
32.5°	636.9	643.8	661.1	681.9	686.5
35°	609.2	617.3	636.9	661.1	666.9
37.5°	580.3	590.7	613.8	638.0	644.9
40°	551.5	563.0	588.4	613.8	621.9
42.5°	522.6	534.2	561.9	590.7	598.8
45°	490.3	506.5	536.5	566.5	573.4
47.5°	459.2	476.5	510.0	540.0	549.2
50°	429.2	446.5	482.3	513.4	522.6
52.5°	398.0	416.5	454.6	486.9	495.0
55°	366.9	386.5	426.9	458.0	465.0
57.5°	335.7	356.5	398.0	428.0	436.1
60°	304.6	326.5	366.9	396.9	402.7
62.5°	273.4	296.5	338.0	364.6	370.4
65°	242.3	267.7	309.2	333.4	340.4
67.5°	212.3	237.7	278.1	301.1	306.9
70°	184.6	207.7	248.1	265.4	267.7
72.5°	150.0	178.8	218.1	227.3	221.5
75°	121.1	150.0	183.4	180.0	173.1
77.5°	92.3	121.1	143.1	131.5	122.3
80°	65.8	94.6	99.2	81.9	77.3
82.5°	42.7	65.8	55.4	42.7	34.6
85°	21.9	31.2	17.3	13.8	11.5
87.5°	6.9	4.6	2.3	2.3	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)