

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: P275396

Luminaire Tested: **14CZ2-25-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2571.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

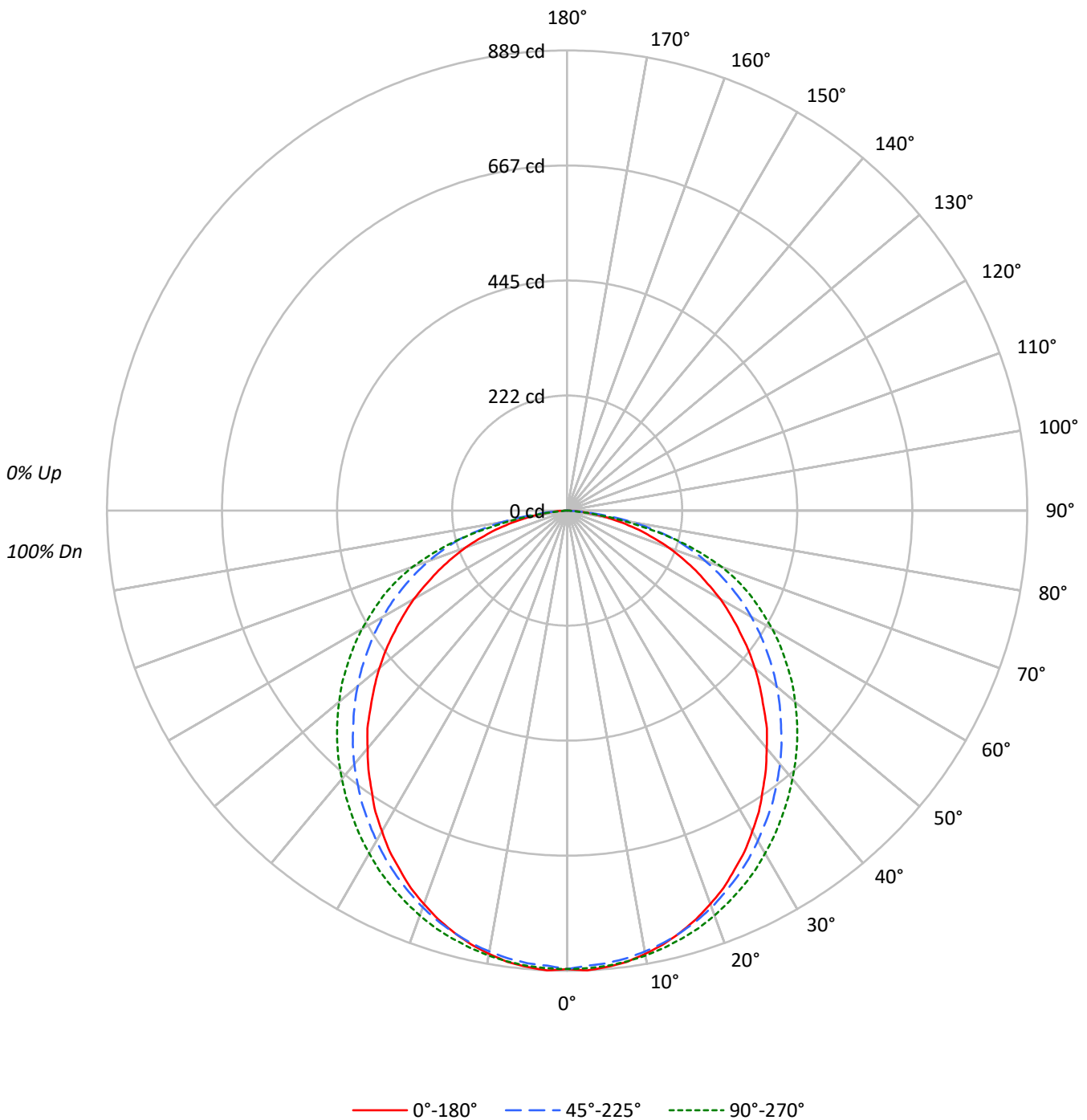
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2383	2383	2383
5°	2391	2371	2385
10°	2376	2364	2386
15°	2351	2352	2384
20°	2316	2336	2384
25°	2272	2313	2381
30°	2223	2289	2376
35°	2164	2269	2375
40°	2107	2248	2378
45°	2042	2223	2391
50°	1982	2213	2407
55°	1907	2206	2429
60°	1839	2209	2462
65°	1745	2216	2500
70°	1637	2233	2499
75°	1484	2253	2259
80°	1216	1945	1609
85°	902	920	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	3.3
10°-20°	239.4	9.3
20°-30°	360.7	14.0
30°-40°	432.8	16.8
40°-50°	451.1	17.5
50°-60°	417.6	16.2
60°-70°	337.4	13.1
70°-80°	205.7	8.0
80°-90°	42.5	1.7
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°	683.9	26.6
0°-40°	1116.7	43.4
0°-60°	1985.4	77.2
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	885	883	878	884	883	84
15°	844	844	844	856	856	238
25°	765	770	779	799	802	353
35°	659	669	691	716	723	413
45°	537	553	584	617	628	415
55°	406	428	470	507	518	364
65°	274	301	348	383	393	271
75°	143	174	217	220	217	150
85°	29	44	30	17	12	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.7	885.7	885.7	885.7	885.7
2.5°	889.2	886.3	880.0	886.3	885.1
5°	885.1	882.9	877.7	884.0	882.9
7.5°	879.4	877.1	872.5	880.0	878.8
10°	869.7	868.5	865.1	873.7	873.1
12.5°	858.2	857.6	855.9	865.7	865.1
15°	843.9	844.4	844.4	855.9	855.9
17.5°	827.8	829.0	831.3	843.9	845.6
20°	808.9	811.2	815.8	830.1	832.4
22.5°	789.4	791.1	798.0	815.2	817.5
25°	765.3	769.9	779.1	798.6	802.0
27.5°	742.4	746.4	759.0	779.1	784.8
30°	715.5	721.8	736.7	758.4	764.8
32.5°	689.7	696.5	713.7	739.0	744.7
35°	658.7	669.0	690.8	716.0	722.9
37.5°	630.6	640.4	665.0	692.5	700.5
40°	599.7	611.7	639.8	669.0	677.0
42.5°	571.0	582.5	612.8	642.6	653.5
45°	536.6	552.6	584.2	616.8	628.3
47.5°	505.1	521.1	557.2	592.2	602.5
50°	473.5	490.7	528.6	564.7	575.0
52.5°	440.9	459.2	499.9	536.0	548.1
55°	406.5	427.7	470.1	506.8	517.7
57.5°	373.8	395.6	440.9	478.1	489.0
60°	341.7	364.0	410.5	446.0	457.5
62.5°	306.1	332.5	380.7	415.6	424.2
65°	274.0	301.0	348.0	383.0	392.7
67.5°	240.2	269.4	316.5	348.6	357.7
70°	208.1	238.5	283.8	313.6	317.6
72.5°	173.7	204.7	250.5	269.4	269.4
75°	142.7	174.3	216.7	220.1	217.3
77.5°	108.9	143.9	171.4	164.5	157.7
80°	78.5	112.9	125.5	112.9	103.8
82.5°	52.7	82.0	75.7	60.2	53.3
85°	29.2	43.6	29.8	16.6	12.0
87.5°	10.9	9.7	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)