

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: P275634

Luminaire Tested: **14CZ2-29-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275634
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: 14CZ2-29-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2688.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

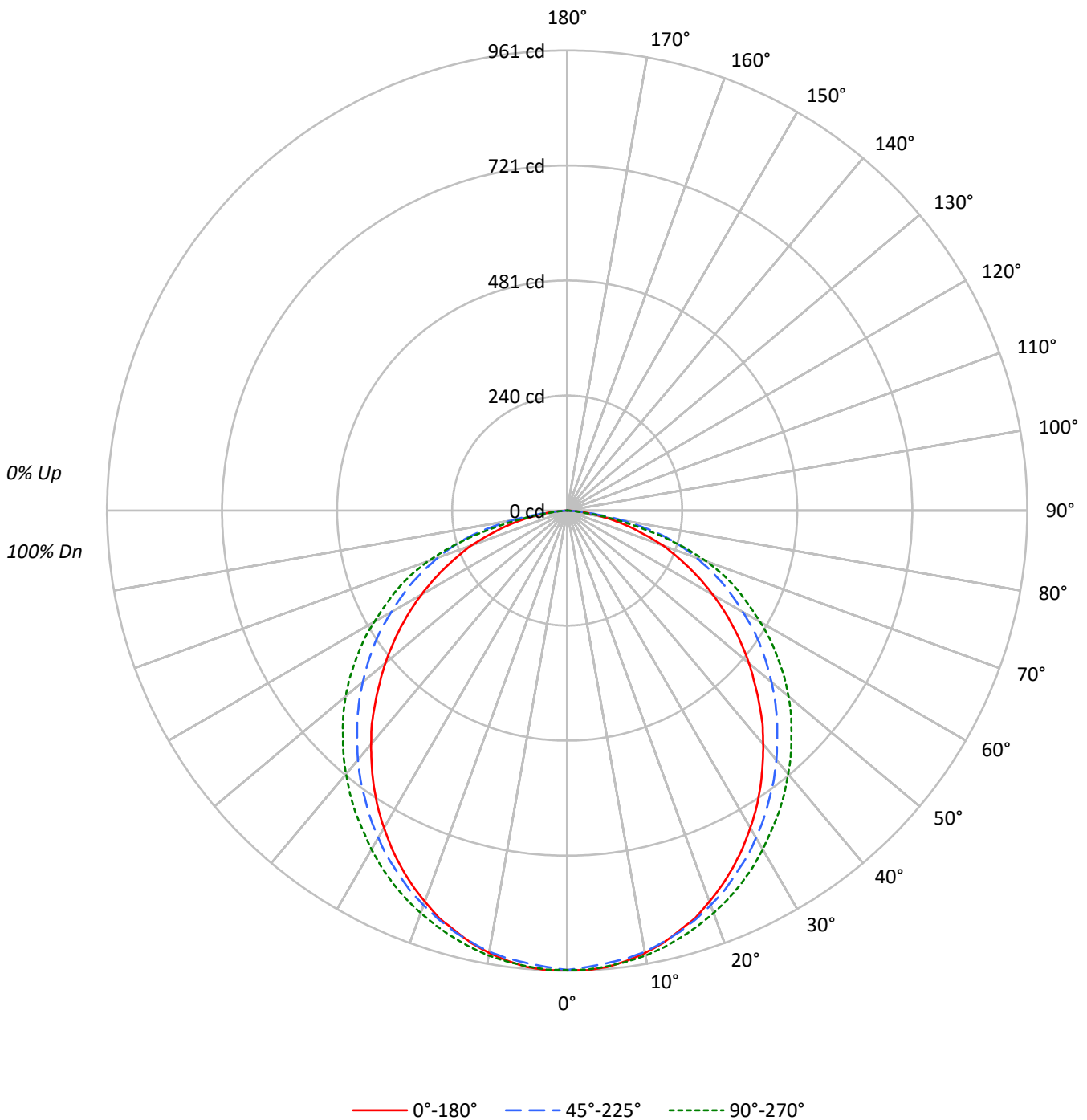
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2582	2582	2582
5°	2585	2563	2581
10°	2564	2557	2578
15°	2528	2536	2569
20°	2488	2511	2561
25°	2438	2481	2552
30°	2377	2452	2539
35°	2312	2417	2530
40°	2238	2388	2523
45°	2156	2358	2521
50°	2076	2332	2527
55°	1988	2313	2520
60°	1893	2281	2503
65°	1782	2274	2504
70°	1677	2254	2433
75°	1455	2203	2078
80°	1178	1776	1384
85°	781	618	411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	3.4
10°-20°	257.8	9.6
20°-30°	386.8	14.4
30°-40°	461.4	17.2
40°-50°	477.0	17.7
50°-60°	435.5	16.2
60°-70°	342.7	12.7
70°-80°	199.5	7.4
80°-90°	36.8	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°	735.2	27.4
0°-40°	1196.6	44.5
0°-60°	2109.1	78.5
0°-90°	2688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	957	954	949	957	956	91
15°	908	909	910	922	922	256
25°	821	825	836	856	860	378
35°	704	713	736	764	770	440
45°	566	585	620	654	662	437
55°	424	446	493	529	537	379
65°	280	309	357	385	393	278
75°	140	173	212	208	200	149
85°	25	36	20	16	13	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.6	959.6	959.6	959.6	959.6
2.5°	960.9	958.2	954.2	960.9	959.6
5°	956.9	954.2	948.9	956.9	955.6
7.5°	948.9	946.2	943.6	951.6	950.2
10°	938.2	936.9	935.6	944.9	943.6
12.5°	924.9	924.9	923.6	934.2	934.2
15°	907.6	908.9	910.3	922.3	922.3
17.5°	891.6	890.3	894.3	907.6	908.9
20°	868.9	871.6	876.9	892.9	894.3
22.5°	846.3	849.0	858.3	874.3	878.3
25°	821.0	825.0	835.6	855.6	859.6
27.5°	794.3	799.6	814.3	835.6	839.6
30°	765.0	773.0	789.0	813.0	817.0
32.5°	735.7	743.7	763.7	787.6	793.0
35°	703.7	713.0	735.7	763.7	770.3
37.5°	670.4	682.4	709.0	737.0	745.0
40°	637.0	650.4	679.7	709.0	718.3
42.5°	603.7	617.1	649.0	682.4	691.7
45°	566.4	585.1	619.7	654.4	662.4
47.5°	530.4	550.4	589.1	623.7	634.4
50°	495.8	515.8	557.1	593.1	603.7
52.5°	459.8	481.1	525.1	562.4	571.7
55°	423.8	446.5	493.1	529.1	537.1
57.5°	387.8	411.8	459.8	494.4	503.8
60°	351.8	377.2	423.8	458.5	465.1
62.5°	315.9	342.5	390.5	421.1	427.8
65°	279.9	309.2	357.2	385.2	393.2
67.5°	245.2	274.5	321.2	347.8	354.5
70°	213.2	239.9	286.5	306.5	309.2
72.5°	173.3	206.6	251.9	262.5	255.9
75°	139.9	173.3	211.9	207.9	199.9
77.5°	106.6	139.9	165.3	151.9	141.3
80°	76.0	109.3	114.6	94.6	89.3
82.5°	49.3	76.0	64.0	49.3	40.0
85°	25.3	36.0	20.0	16.0	13.3
87.5°	8.0	5.3	2.7	2.7	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)