

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: P275636

Luminaire Tested: **14CZ2-29-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275636
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-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.0 lumens
Efficiency: N/A
Efficacy: 128.7 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

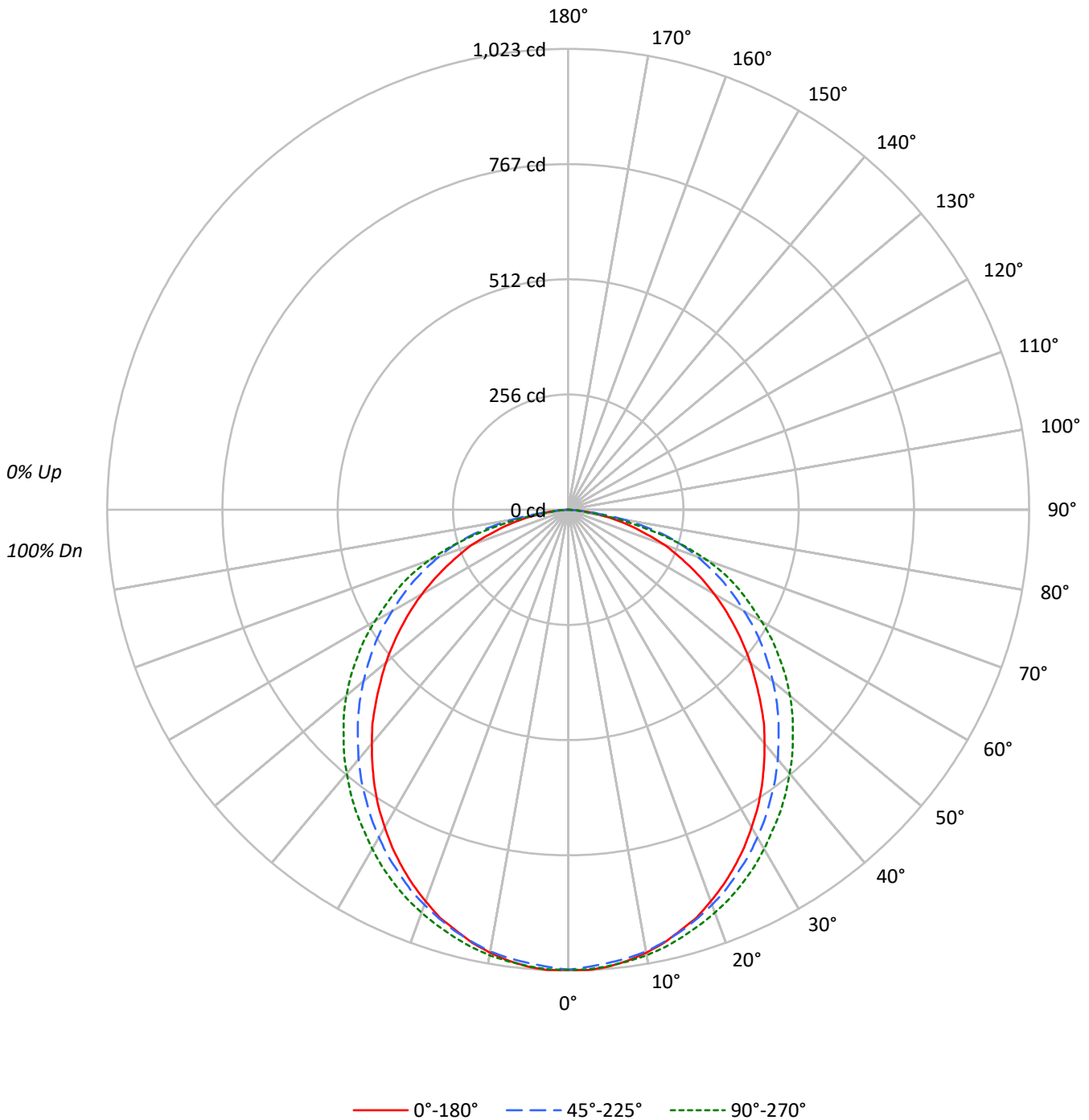
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2748	2748	2748
5°	2751	2728	2747
10°	2729	2721	2744
15°	2691	2699	2735
20°	2649	2673	2726
25°	2594	2641	2716
30°	2530	2609	2702
35°	2461	2572	2693
40°	2382	2541	2686
45°	2294	2510	2683
50°	2209	2482	2690
55°	2116	2462	2682
60°	2016	2428	2665
65°	1897	2421	2665
70°	1786	2400	2589
75°	1548	2345	2213
80°	1254	1891	1472
85°	834	658	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.4
10°-20°	274.4	9.6
20°-30°	411.7	14.4
30°-40°	491.1	17.2
40°-50°	507.7	17.7
50°-60°	463.5	16.2
60°-70°	364.8	12.7
70°-80°	212.3	7.4
80°-90°	39.1	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°	782.5	27.4
0°-40°	1273.6	44.5
0°-60°	2244.8	78.5
0°-90°	2861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1018	1016	1010	1018	1017	97
15°	966	967	969	982	982	273
25°	874	878	889	911	915	402
35°	749	759	783	813	820	468
45°	603	623	660	696	705	466
55°	451	475	525	563	572	403
65°	298	329	380	410	418	296
75°	149	184	226	221	213	158
85°	27	38	21	17	14	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1021.3	1021.3	1021.3	1021.3	1021.3
2.5°	1022.7	1019.9	1015.7	1022.7	1021.3
5°	1018.5	1015.7	1010.0	1018.5	1017.1
7.5°	1010.0	1007.1	1004.3	1012.8	1011.4
10°	998.6	997.2	995.8	1005.7	1004.3
12.5°	984.4	984.4	983.0	994.4	994.4
15°	966.0	967.4	968.8	981.6	981.6
17.5°	949.0	947.6	951.8	966.0	967.4
20°	924.9	927.7	933.4	950.4	951.8
22.5°	900.8	903.6	913.5	930.5	934.8
25°	873.8	878.1	889.4	910.7	914.9
27.5°	845.4	851.1	866.7	889.4	893.7
30°	814.2	822.7	839.8	865.3	869.5
32.5°	783.0	791.5	812.8	838.3	844.0
35°	749.0	758.9	783.0	812.8	819.9
37.5°	713.5	726.3	754.6	784.4	792.9
40°	678.0	692.2	723.4	754.6	764.6
42.5°	642.6	656.8	690.8	726.3	736.2
45°	602.9	622.7	659.6	696.5	705.0
47.5°	564.6	585.8	627.0	663.9	675.2
50°	527.7	549.0	592.9	631.2	642.6
52.5°	489.4	512.1	558.9	598.6	608.5
55°	451.1	475.2	524.8	563.1	571.7
57.5°	412.8	438.3	489.4	526.3	536.2
60°	374.5	401.4	451.1	488.0	495.1
62.5°	336.2	364.6	415.6	448.3	455.3
65°	297.9	329.1	380.2	410.0	418.5
67.5°	261.0	292.2	341.9	370.2	377.3
70°	227.0	255.3	305.0	326.3	329.1
72.5°	184.4	219.9	268.1	279.4	272.4
75°	148.9	184.4	225.5	221.3	212.8
77.5°	113.5	148.9	175.9	161.7	150.4
80°	80.9	116.3	122.0	100.7	95.0
82.5°	52.5	80.9	68.1	52.5	42.6
85°	27.0	38.3	21.3	17.0	14.2
87.5°	8.5	5.7	2.8	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)