

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: P275696

Luminaire Tested: **14CZ2-29-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275696
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-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: 2780.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

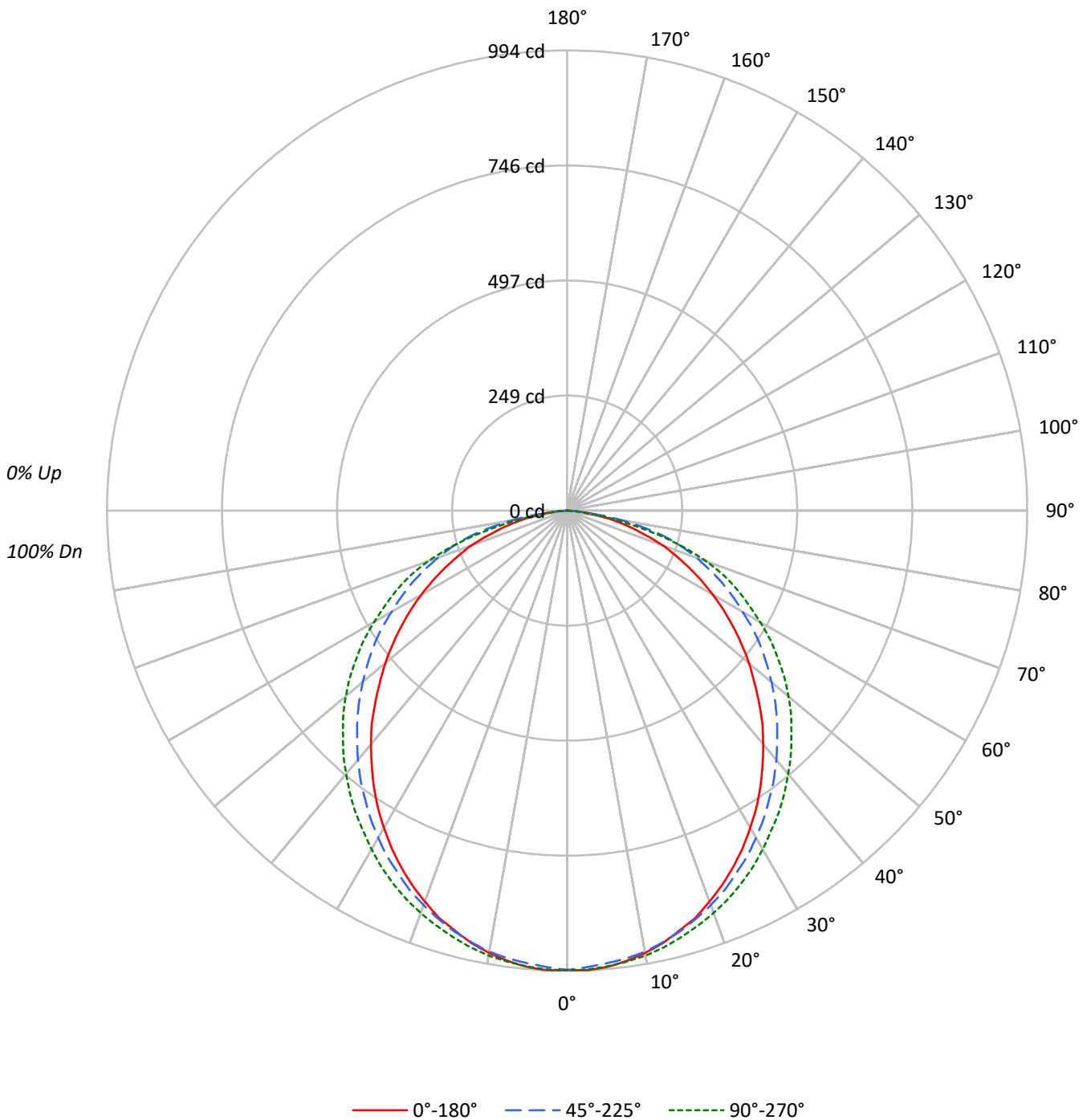
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2671	2671	2671
5°	2673	2651	2670
10°	2652	2644	2667
15°	2615	2623	2657
20°	2574	2597	2649
25°	2521	2566	2640
30°	2458	2536	2625
35°	2391	2500	2617
40°	2315	2470	2610
45°	2229	2439	2607
50°	2146	2412	2614
55°	2056	2393	2606
60°	1958	2359	2589
65°	1843	2352	2589
70°	1735	2331	2516
75°	1504	2279	2150
80°	1218	1836	1430
85°	809	639	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.4
10°-20°	266.7	9.6
20°-30°	400.0	14.4
30°-40°	477.2	17.2
40°-50°	493.3	17.7
50°-60°	450.4	16.2
60°-70°	354.4	12.7
70°-80°	206.3	7.4
80°-90°	38.0	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°	760.4	27.4
0°-40°	1237.6	44.5
0°-60°	2181.2	78.5
0°-90°	2780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	990	987	981	990	988	94
15°	939	940	941	954	954	265
25°	849	853	864	885	889	391
35°	728	737	761	790	797	455
45°	586	605	641	677	685	452
55°	438	462	510	547	556	392
65°	290	320	369	398	407	287
75°	145	179	219	215	207	154
85°	26	37	21	16	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.4	992.4	992.4	992.4	992.4
2.5°	993.8	991.0	986.9	993.8	992.4
5°	989.7	986.9	981.4	989.7	988.3
7.5°	981.4	978.6	975.9	984.1	982.8
10°	970.4	969.0	967.6	977.3	975.9
12.5°	956.6	956.6	955.2	966.2	966.2
15°	938.7	940.0	941.4	953.8	953.8
17.5°	922.1	920.7	924.9	938.7	940.0
20°	898.7	901.4	907.0	923.5	924.9
22.5°	875.3	878.0	887.7	904.2	908.3
25°	849.1	853.2	864.2	884.9	889.0
27.5°	821.5	827.0	842.2	864.2	868.4
30°	791.2	799.4	816.0	840.8	844.9
32.5°	760.9	769.1	789.8	814.6	820.1
35°	727.8	737.4	760.9	789.8	796.7
37.5°	693.3	705.7	733.3	762.2	770.5
40°	658.9	672.6	703.0	733.3	742.9
42.5°	624.4	638.2	671.3	705.7	715.4
45°	585.8	605.1	640.9	676.8	685.0
47.5°	548.6	569.3	609.2	645.1	656.1
50°	512.7	533.4	576.2	613.4	624.4
52.5°	475.5	497.6	543.1	581.7	591.3
55°	438.3	461.7	510.0	547.2	555.5
57.5°	401.1	425.9	475.5	511.4	521.0
60°	363.9	390.1	438.3	474.2	481.0
62.5°	326.7	354.2	403.9	435.6	442.5
65°	289.5	319.8	369.4	398.3	406.6
67.5°	253.6	283.9	332.2	359.8	366.6
70°	220.5	248.1	296.3	317.0	319.8
72.5°	179.2	213.6	260.5	271.5	264.6
75°	144.7	179.2	219.2	215.0	206.8
77.5°	110.3	144.7	170.9	157.1	146.1
80°	78.6	113.0	118.5	97.9	92.3
82.5°	51.0	78.6	66.2	51.0	41.4
85°	26.2	37.2	20.7	16.5	13.8
87.5°	8.3	5.5	2.8	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)