

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: P275886

Luminaire Tested: **14CZ2-44-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2438.0 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

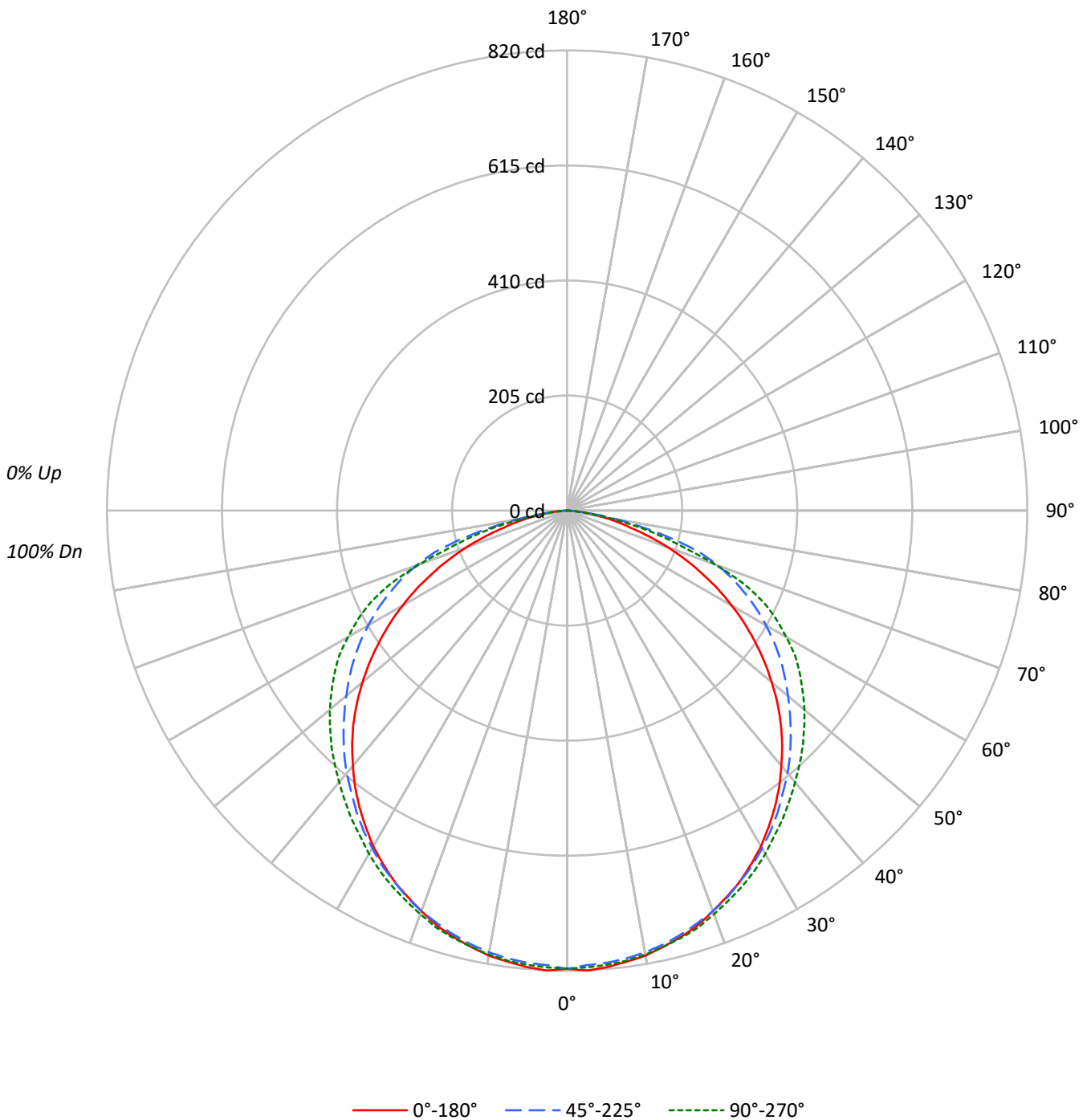
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2197	2197	2197
5°	2206	2185	2195
10°	2200	2184	2195
15°	2190	2179	2195
20°	2175	2175	2191
25°	2165	2165	2193
30°	2147	2159	2194
35°	2120	2151	2201
40°	2086	2146	2220
45°	2050	2144	2260
50°	1992	2151	2311
55°	1920	2179	2375
60°	1823	2202	2428
65°	1685	2230	2460
70°	1497	2246	2201
75°	1207	2018	1761
80°	944	1416	1150
85°	645	411	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.2
10°-20°	221.7	9.1
20°-30°	337.6	13.8
30°-40°	411.2	16.9
40°-50°	436.3	17.9
50°-60°	411.8	16.9
60°-70°	332.5	13.6
70°-80°	180.3	7.4
80°-90°	29.2	1.2
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°	636.7	26.1
0°-40°	1047.9	43.0
0°-60°	1896.0	77.8
0°-90°	2438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	816	815	809	815	813	78
15°	786	784	782	788	788	222
25°	729	727	729	737	738	336
35°	645	649	655	668	670	403
45°	539	546	563	584	594	415
55°	409	426	464	495	506	366
65°	265	297	350	379	386	262
75°	116	169	194	175	169	127
85°	21	23	13	11	10	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.5	816.5	816.5	816.5	816.5
2.5°	820.4	816.5	810.8	816.5	814.6
5°	816.5	814.6	808.9	814.6	812.7
7.5°	810.8	810.8	805.1	808.9	808.9
10°	805.1	803.2	799.4	805.1	803.2
12.5°	795.6	793.7	791.8	797.5	795.6
15°	786.1	784.2	782.3	788.0	788.0
17.5°	774.7	772.8	770.9	778.5	778.5
20°	759.4	759.4	759.4	767.1	765.2
22.5°	744.2	744.2	746.1	753.7	751.8
25°	729.0	727.1	729.0	736.6	738.5
27.5°	710.0	711.9	713.8	721.4	723.3
30°	690.9	692.8	694.7	704.2	706.2
32.5°	668.1	671.9	675.7	687.1	687.1
35°	645.2	649.1	654.8	668.1	670.0
37.5°	620.5	624.3	631.9	647.1	651.0
40°	593.9	599.6	611.0	626.2	631.9
42.5°	567.2	574.8	588.1	605.3	612.9
45°	538.7	546.3	563.4	584.3	593.9
47.5°	508.2	517.7	538.7	565.3	572.9
50°	475.8	489.2	513.9	542.5	552.0
52.5°	443.5	458.7	489.2	519.6	529.1
55°	409.2	426.4	464.4	494.9	506.3
57.5°	375.0	394.0	437.8	470.1	481.6
60°	338.8	361.6	409.2	441.6	451.1
62.5°	302.6	329.3	380.7	413.0	420.6
65°	264.6	296.9	350.2	378.8	386.4
67.5°	228.4	266.5	319.8	340.7	340.7
70°	190.3	232.2	285.5	291.2	279.8
72.5°	152.3	199.9	247.4	226.5	217.0
75°	116.1	169.4	194.1	175.1	169.4
77.5°	87.6	137.0	137.0	125.6	121.8
80°	60.9	104.7	91.4	79.9	74.2
82.5°	40.0	59.0	47.6	38.1	32.4
85°	20.9	22.8	13.3	11.4	9.5
87.5°	7.6	3.8	1.9	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)