

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: P275829

Luminaire Tested: **14CZ2-44-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275829
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-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2532.0 lumens
Efficiency: N/A
Efficacy: 71.1 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

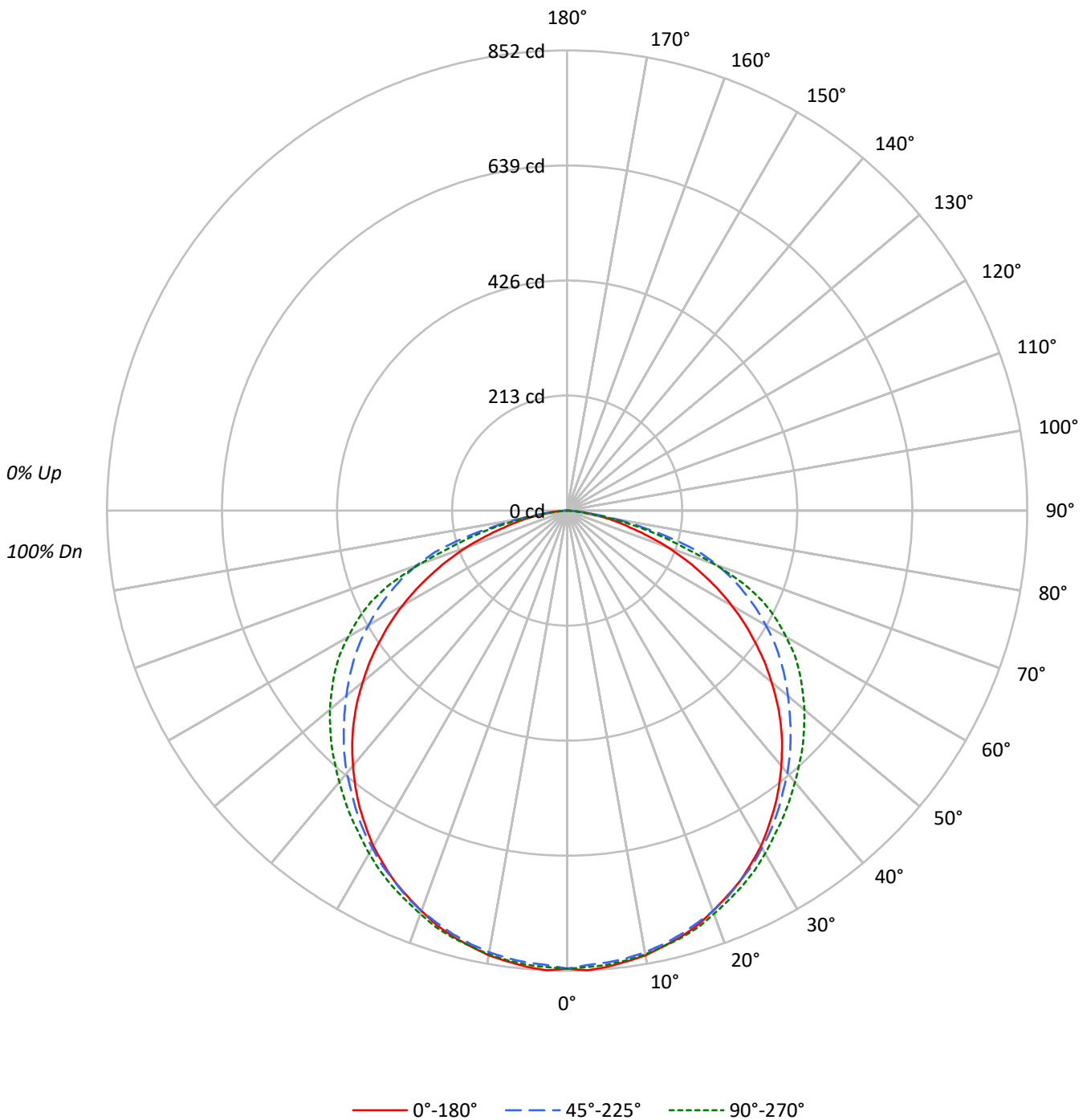
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2282	2282	2282
5°	2291	2269	2280
10°	2285	2269	2279
15°	2274	2263	2280
20°	2259	2259	2276
25°	2248	2248	2277
30°	2230	2242	2279
35°	2201	2234	2286
40°	2167	2229	2305
45°	2129	2227	2347
50°	2069	2234	2400
55°	1994	2263	2467
60°	1894	2287	2521
65°	1750	2316	2555
70°	1555	2333	2286
75°	1254	2096	1829
80°	981	1471	1195
85°	670	426	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.2
10°-20°	230.3	9.1
20°-30°	350.7	13.8
30°-40°	427.1	16.9
40°-50°	453.1	17.9
50°-60°	427.7	16.9
60°-70°	345.3	13.6
70°-80°	187.3	7.4
80°-90°	30.3	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°	661.2	26.1
0°-40°	1088.3	43.0
0°-60°	1969.1	77.8
0°-90°	2532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	848	846	840	846	844	81
15°	816	814	812	818	818	230
25°	757	755	757	765	767	349
35°	670	674	680	694	696	419
45°	559	567	585	607	617	431
55°	425	443	482	514	526	380
65°	275	308	364	393	401	272
75°	121	176	202	182	176	132
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.0	848.0	848.0	848.0	848.0
2.5°	852.0	848.0	842.1	848.0	846.1
5°	848.0	846.1	840.1	846.1	844.1
7.5°	842.1	842.1	836.2	840.1	840.1
10°	836.2	834.2	830.2	836.2	834.2
12.5°	826.3	824.3	822.3	828.3	826.3
15°	816.4	814.4	812.4	818.4	818.4
17.5°	804.5	802.6	800.6	808.5	808.5
20°	788.7	788.7	788.7	796.6	794.7
22.5°	772.9	772.9	774.9	782.8	780.8
25°	757.1	755.1	757.1	765.0	767.0
27.5°	737.3	739.3	741.3	749.2	751.2
30°	717.6	719.5	721.5	731.4	733.4
32.5°	693.8	697.8	701.8	713.6	713.6
35°	670.1	674.1	680.0	693.8	695.8
37.5°	644.4	648.4	656.3	672.1	676.1
40°	616.8	622.7	634.5	650.4	656.3
42.5°	589.1	597.0	610.8	628.6	636.5
45°	559.4	567.3	585.1	606.9	616.8
47.5°	527.8	537.7	559.4	587.1	595.0
50°	494.2	508.0	533.7	563.4	573.3
52.5°	460.6	476.4	508.0	539.7	549.5
55°	425.0	442.8	482.3	514.0	525.8
57.5°	389.4	409.2	454.7	488.3	500.1
60°	351.9	375.6	425.0	458.6	468.5
62.5°	314.3	342.0	395.4	429.0	436.9
65°	274.8	308.4	363.7	393.4	401.3
67.5°	237.2	276.7	332.1	353.8	353.8
70°	197.7	241.2	296.5	302.4	290.6
72.5°	158.1	207.6	257.0	235.2	225.4
75°	120.6	175.9	201.6	181.9	175.9
77.5°	90.9	142.3	142.3	130.5	126.5
80°	63.3	108.7	94.9	83.0	77.1
82.5°	41.5	61.3	49.4	39.5	33.6
85°	21.7	23.7	13.8	11.9	9.9
87.5°	7.9	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)