

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: P277654

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-RDP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2598.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

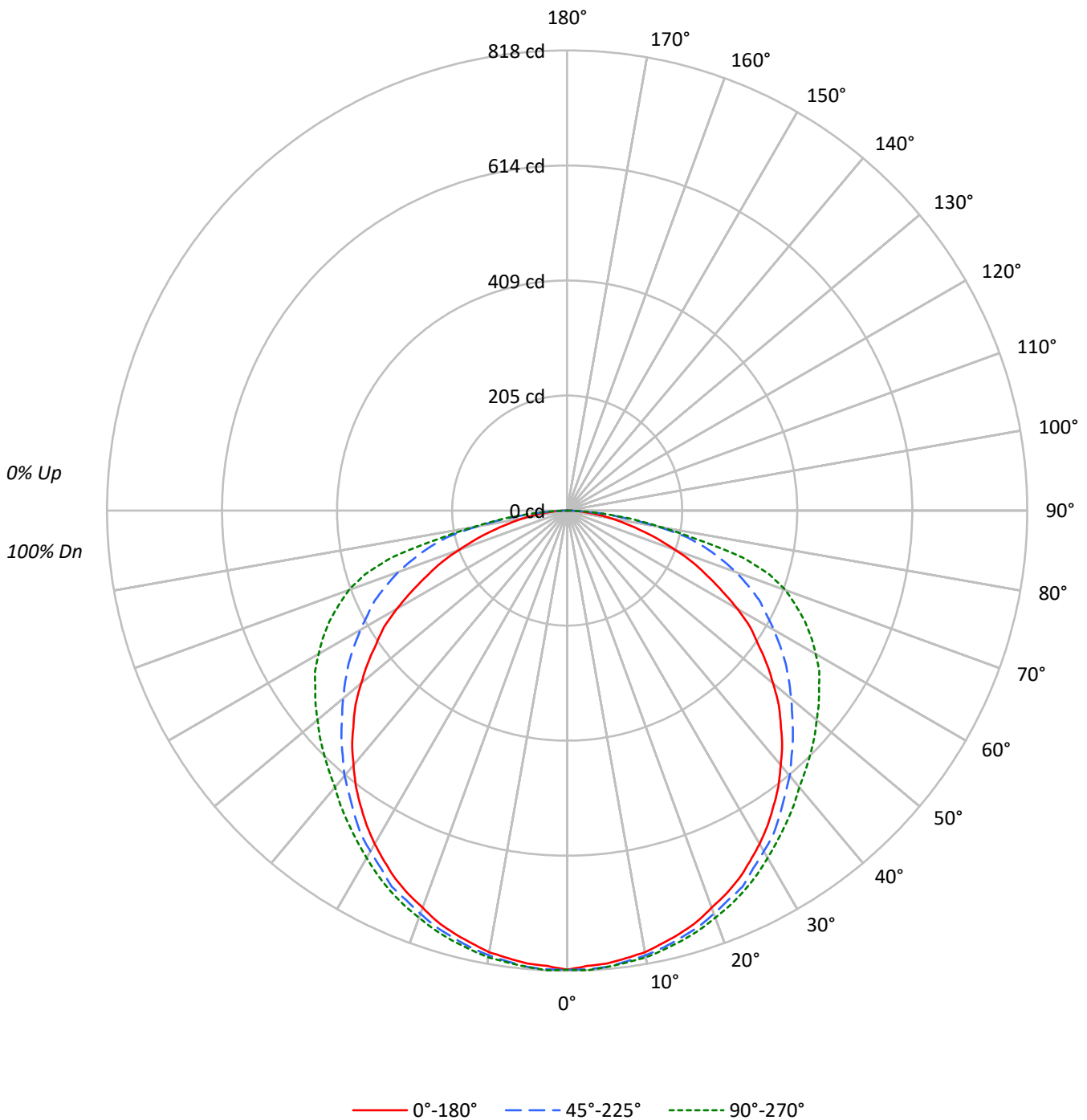
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2196	2196	2196
5°	2184	2199	2199
10°	2178	2193	2204
15°	2167	2188	2204
20°	2151	2184	2206
25°	2145	2190	2213
30°	2126	2174	2215
35°	2103	2166	2229
40°	2075	2162	2256
45°	2044	2160	2328
50°	2000	2176	2424
55°	1946	2224	2564
60°	1882	2284	2746
65°	1752	2397	2969
70°	1609	2511	3248
75°	1411	2643	3358
80°	1215	2518	2636
85°	1062	1828	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.0
10°-20°	221.6	8.5
20°-30°	338.2	13.0
30°-40°	412.9	15.9
40°-50°	441.5	17.0
50°-60°	426.1	16.4
60°-70°	366.8	14.1
70°-80°	248.2	9.6
80°-90°	65.5	2.5
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°	637.0	24.5
0°-40°	1049.9	40.4
0°-60°	1917.5	73.8
0°-90°	2598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	808	810	814	814	814	77
15°	778	780	786	789	791	219
25°	722	726	738	742	745	332
35°	640	646	659	673	678	401
45°	537	547	568	596	612	415
55°	415	428	474	522	547	372
65°	275	302	376	436	466	274
75°	136	180	254	306	323	146
85°	34	48	59	61	65	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.1	816.1	816.1	816.1	816.1
2.5°	810.3	812.3	816.1	816.1	818.0
5°	808.4	810.3	814.2	814.2	814.2
7.5°	802.7	804.6	808.4	810.3	810.3
10°	797.0	798.9	802.7	804.6	806.5
12.5°	787.4	789.3	795.1	798.9	798.9
15°	777.9	779.8	785.5	789.3	791.2
17.5°	766.4	770.2	775.9	779.8	781.7
20°	751.1	754.9	762.6	768.3	770.2
22.5°	737.7	741.5	749.2	754.9	758.7
25°	722.4	726.3	737.7	741.5	745.4
27.5°	703.3	707.1	716.7	724.3	730.1
30°	684.2	688.0	699.5	709.1	712.9
32.5°	663.2	668.9	682.3	689.9	695.7
35°	640.2	646.0	659.4	672.7	678.5
37.5°	617.3	623.0	636.4	653.6	661.3
40°	590.6	598.2	615.4	638.3	642.2
42.5°	565.7	575.3	590.6	617.3	626.9
45°	537.0	546.6	567.6	596.3	611.6
47.5°	510.3	519.8	542.8	577.2	596.3
50°	477.8	491.2	519.8	560.0	579.1
52.5°	447.2	458.7	496.9	540.9	563.8
55°	414.7	428.1	474.0	521.8	546.6
57.5°	386.1	397.5	449.1	502.6	531.3
60°	349.7	365.0	424.3	481.6	510.3
62.5°	311.5	334.5	399.4	458.7	489.3
65°	275.2	302.0	376.5	435.8	466.3
67.5°	242.7	271.4	347.8	410.9	439.6
70°	204.5	240.8	319.2	380.3	412.8
72.5°	170.1	210.2	286.7	347.8	376.5
75°	135.7	179.7	254.2	305.8	323.0
77.5°	105.1	147.2	217.9	233.2	235.1
80°	78.4	116.6	162.5	164.4	170.1
82.5°	53.5	82.2	105.1	114.7	116.6
85°	34.4	47.8	59.2	61.2	65.0
87.5°	15.3	17.2	21.0	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)