

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: P275594

Luminaire Tested: **14CZ2-25-S-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275594
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: 14CZ2-25-S-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2289.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

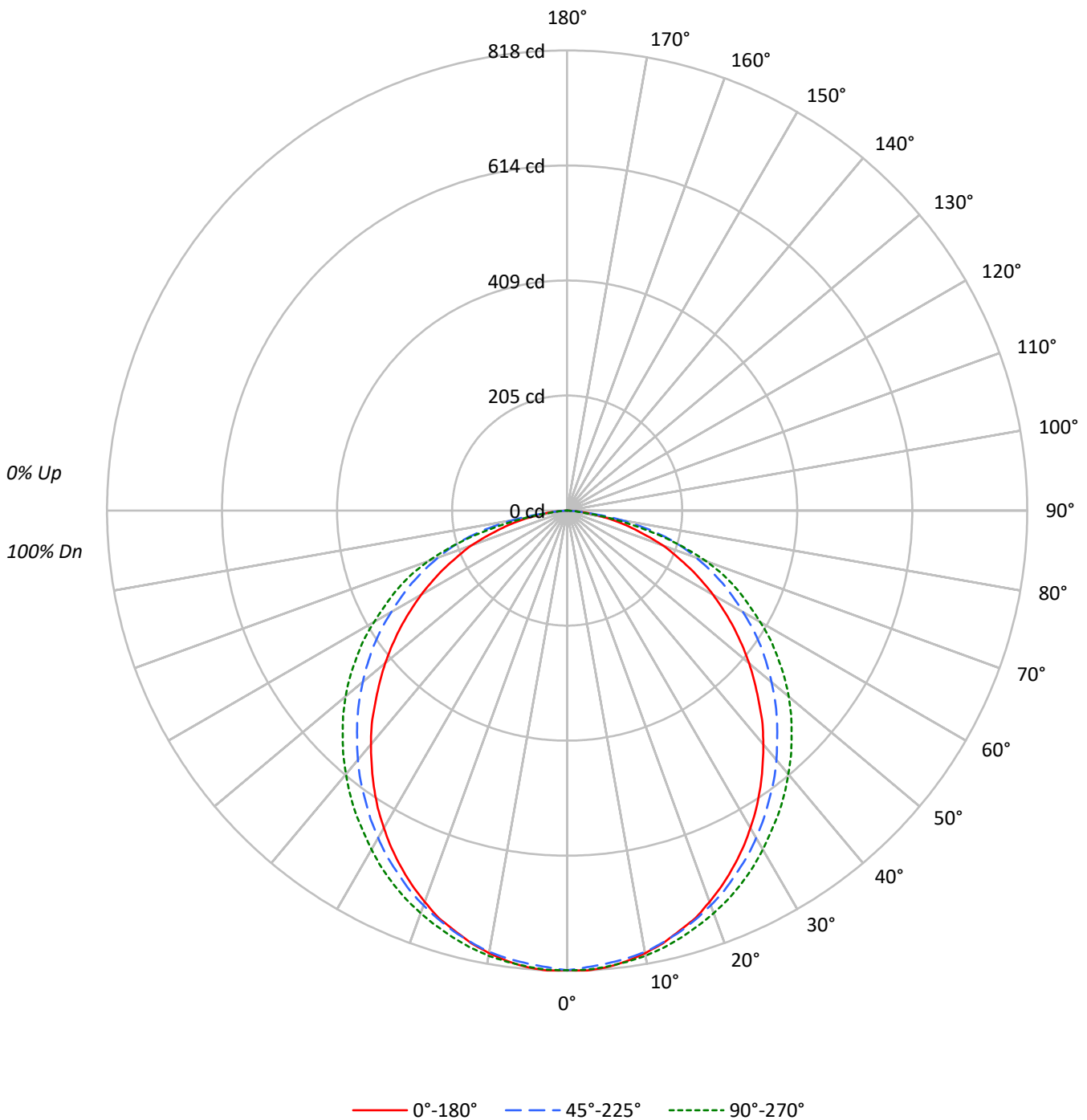
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2199	2199	2199
5°	2201	2183	2198
10°	2183	2177	2196
15°	2153	2159	2188
20°	2119	2139	2181
25°	2076	2113	2173
30°	2024	2088	2162
35°	1968	2058	2155
40°	1906	2033	2149
45°	1835	2008	2147
50°	1768	1986	2152
55°	1693	1970	2146
60°	1612	1942	2132
65°	1517	1937	2132
70°	1429	1920	2072
75°	1239	1877	1770
80°	1003	1512	1178
85°	667	525	349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.4
10°-20°	219.6	9.6
20°-30°	329.4	14.4
30°-40°	392.9	17.2
40°-50°	406.2	17.7
50°-60°	370.8	16.2
60°-70°	291.8	12.7
70°-80°	169.9	7.4
80°-90°	31.3	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°	626.1	27.4
0°-40°	1019.0	44.5
0°-60°	1796.0	78.5
0°-90°	2289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	815	813	808	815	814	77
15°	773	774	775	785	785	218
25°	699	702	712	729	732	322
35°	599	607	626	650	656	375
45°	482	498	528	557	564	372
55°	361	380	420	451	457	323
65°	238	263	304	328	335	237
75°	119	148	180	177	170	127
85°	22	31	17	14	11	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.1	817.1	817.1	817.1	817.1
2.5°	818.3	816.0	812.6	818.3	817.1
5°	814.9	812.6	808.1	814.9	813.7
7.5°	808.1	805.8	803.5	810.3	809.2
10°	799.0	797.8	796.7	804.7	803.5
12.5°	787.6	787.6	786.5	795.6	795.6
15°	772.9	774.0	775.1	785.4	785.4
17.5°	759.3	758.1	761.5	772.9	774.0
20°	740.0	742.2	746.8	760.4	761.5
22.5°	720.7	722.9	730.9	744.5	747.9
25°	699.1	702.5	711.6	728.6	732.0
27.5°	676.4	680.9	693.4	711.6	715.0
30°	651.4	658.2	671.9	692.3	695.7
32.5°	626.5	633.3	650.3	670.7	675.3
35°	599.2	607.2	626.5	650.3	656.0
37.5°	570.9	581.1	603.8	627.6	634.4
40°	542.5	553.8	578.8	603.8	611.7
42.5°	514.1	525.5	552.7	581.1	589.0
45°	482.3	498.2	527.7	557.2	564.1
47.5°	451.7	468.7	501.6	531.1	540.2
50°	422.2	439.2	474.4	505.0	514.1
52.5°	391.5	409.7	447.2	478.9	486.9
55°	360.9	380.2	419.9	450.6	457.4
57.5°	330.3	350.7	391.5	421.1	429.0
60°	299.6	321.2	360.9	390.4	396.1
62.5°	269.0	291.7	332.5	358.6	364.3
65°	238.3	263.3	304.2	328.0	334.8
67.5°	208.8	233.8	273.5	296.2	301.9
70°	181.6	204.3	244.0	261.0	263.3
72.5°	147.5	175.9	214.5	223.6	217.9
75°	119.2	147.5	180.5	177.0	170.2
77.5°	90.8	119.2	140.7	129.4	120.3
80°	64.7	93.1	97.6	80.6	76.0
82.5°	42.0	64.7	54.5	42.0	34.0
85°	21.6	30.6	17.0	13.6	11.3
87.5°	6.8	4.5	2.3	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)