

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: P277159

Luminaire Tested: **22CZ2-24HE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24HE-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2385.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

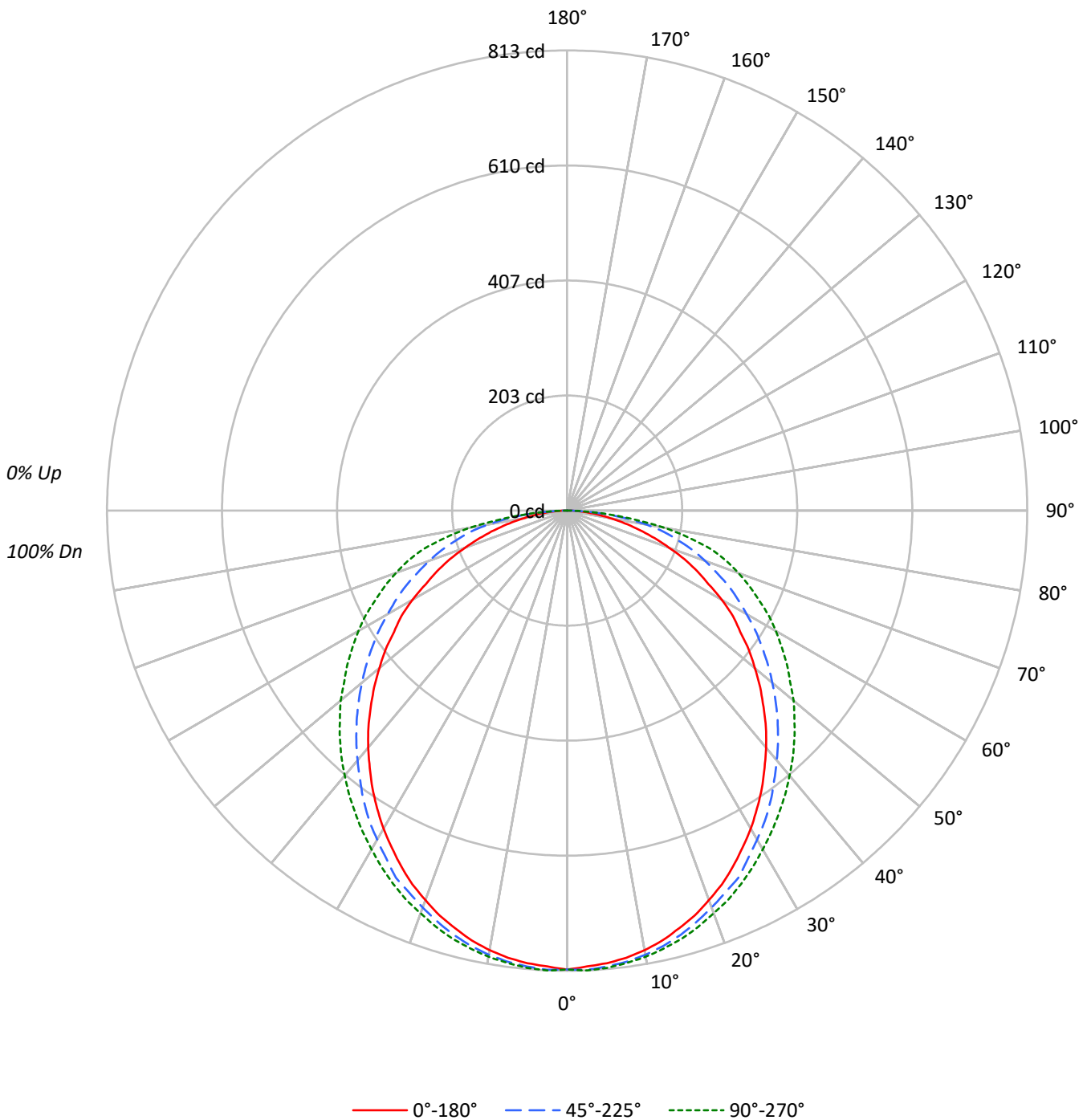
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90		92	90	87		89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	35	30		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2182	2182	2182
5°	2168	2184	2190
10°	2155	2178	2187
15°	2128	2161	2181
20°	2097	2137	2168
25°	2059	2126	2160
30°	2017	2086	2148
35°	1970	2059	2144
40°	1921	2024	2148
45°	1867	2001	2162
50°	1813	1980	2186
55°	1751	1971	2224
60°	1699	1971	2293
65°	1614	2003	2376
70°	1505	2041	2530
75°	1379	2111	2733
80°	1201	2201	2692
85°	1050	1958	2137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.2
10°-20°	218.4	9.2
20°-30°	327.9	13.7
30°-40°	391.8	16.4
40°-50°	407.5	17.1
50°-60°	377.7	15.8
60°-70°	309.8	13.0
70°-80°	209.4	8.8
80°-90°	65.8	2.8
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°	623.1	26.1
0°-40°	1014.9	42.6
0°-60°	1800.0	75.5
0°-90°	2385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	803	804	809	810	811	76
15°	764	768	776	780	783	216
25°	694	700	716	724	728	319
35°	600	608	627	646	652	375
45°	491	500	526	556	568	379
55°	373	385	420	458	474	335
65°	254	268	314	356	373	251
75°	133	155	203	244	263	141
85°	34	47	63	70	69	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.9	810.9	810.9	810.9	810.9
2.5°	806.2	808.6	812.1	813.3	813.3
5°	802.7	803.9	808.6	809.8	810.9
7.5°	796.9	799.2	803.9	805.1	806.2
10°	788.6	791.0	796.9	799.2	800.4
12.5°	778.1	780.4	787.5	791.0	792.2
15°	764.0	767.5	775.7	780.4	782.8
17.5°	749.9	753.4	761.7	768.7	771.0
20°	732.3	740.5	746.4	755.8	757.0
22.5°	714.7	719.4	730.0	739.4	744.0
25°	693.6	699.5	715.9	724.1	727.6
27.5°	671.3	679.5	692.4	705.3	710.0
30°	649.0	654.9	671.3	686.5	691.2
32.5°	624.3	632.6	650.2	665.4	672.5
35°	599.7	607.9	626.7	645.5	652.5
37.5°	572.7	582.1	600.9	623.2	632.6
40°	546.9	553.9	576.2	603.2	611.4
42.5°	519.9	528.1	551.6	580.9	590.3
45°	490.6	499.9	525.8	556.3	568.0
47.5°	462.4	471.8	499.9	530.5	544.5
50°	433.1	444.8	473.0	508.2	522.2
52.5°	404.9	415.4	447.1	483.5	496.4
55°	373.2	384.9	420.1	457.7	474.1
57.5°	347.4	355.6	394.3	433.1	449.5
60°	315.7	326.3	366.2	407.2	426.0
62.5°	281.7	299.3	340.3	382.6	401.4
65°	253.5	267.6	314.5	355.6	373.2
67.5°	224.2	239.4	285.2	328.6	348.6
70°	191.3	211.2	259.4	302.8	321.6
72.5°	162.0	183.1	232.4	274.6	294.6
75°	132.6	154.9	203.0	244.1	262.9
77.5°	104.4	129.1	176.0	207.7	219.5
80°	77.5	100.9	142.0	164.3	173.7
82.5°	54.0	73.9	104.4	116.2	118.5
85°	34.0	46.9	63.4	70.4	69.2
87.5°	15.3	18.8	23.5	25.8	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)