

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: P260320

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-SQP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2577.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

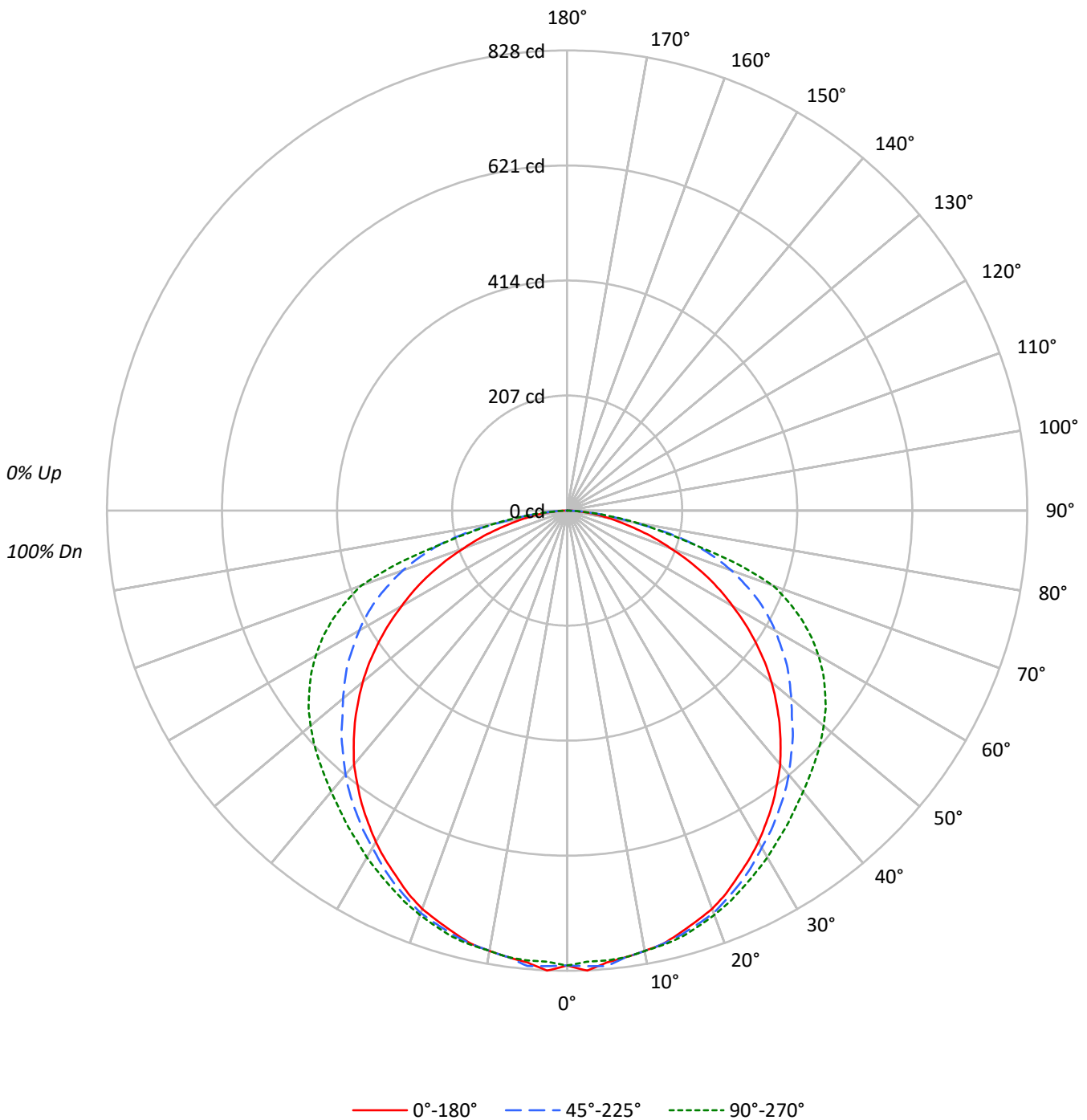
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2203	2203	2203
5°	2206	2222	2195
10°	2198	2198	2198
15°	2191	2202	2213
20°	2184	2206	2218
25°	2157	2193	2222
30°	2139	2176	2239
35°	2117	2176	2268
40°	2095	2179	2320
45°	2056	2186	2407
50°	2011	2203	2522
55°	1944	2263	2657
60°	1852	2327	2811
65°	1746	2408	2969
70°	1559	2472	3102
75°	1353	2477	2456
80°	1147	1830	1985
85°	988	1235	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.0
10°-20°	223.2	8.7
20°-30°	340.1	13.2
30°-40°	416.1	16.1
40°-50°	447.8	17.4
50°-60°	433.7	16.8
60°-70°	367.4	14.3
70°-80°	222.1	8.6
80°-90°	48.8	1.9
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°	641.0	24.9
0°-40°	1057.2	41.0
0°-60°	1938.7	75.2
0°-90°	2577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	816	816	822	818	812	78
15°	786	788	790	792	794	222
25°	726	730	738	744	748	335
35°	644	648	662	680	690	403
45°	540	550	574	610	632	416
55°	414	432	482	538	566	370
65°	274	304	378	438	466	270
75°	130	176	238	242	236	140
85°	32	38	40	38	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.5	818.5	818.5	818.5	818.5
2.5°	828.5	826.5	820.5	816.5	812.5
5°	816.5	816.5	822.5	818.5	812.5
7.5°	810.5	810.5	810.5	820.5	810.5
10°	804.5	806.5	804.5	812.5	804.5
12.5°	798.5	798.5	798.5	800.5	800.5
15°	786.5	788.5	790.5	792.5	794.5
17.5°	774.5	776.5	780.5	782.5	784.5
20°	762.5	764.5	770.5	770.5	774.5
22.5°	746.5	746.5	754.5	756.5	762.5
25°	726.5	730.5	738.5	744.5	748.5
27.5°	708.5	712.5	720.5	728.5	734.5
30°	688.4	692.4	700.4	712.5	720.5
32.5°	666.4	670.4	682.4	696.4	704.5
35°	644.4	648.4	662.4	680.4	690.4
37.5°	620.4	626.4	642.4	662.4	674.4
40°	596.4	602.4	620.4	642.4	660.4
42.5°	568.4	576.4	596.4	626.4	646.4
45°	540.3	550.4	574.4	610.4	632.4
47.5°	510.3	520.3	548.4	594.4	618.4
50°	480.3	492.3	526.3	576.4	602.4
52.5°	448.3	460.3	504.3	558.4	586.4
55°	414.3	432.3	482.3	538.3	566.4
57.5°	380.2	400.3	456.3	516.3	546.3
60°	344.2	368.2	432.3	492.3	522.3
62.5°	310.2	336.2	406.3	466.3	496.3
65°	274.2	304.2	378.2	438.3	466.3
67.5°	236.2	274.2	346.2	404.3	432.3
70°	198.1	242.2	314.2	368.2	394.3
72.5°	164.1	210.1	278.2	324.2	324.2
75°	130.1	176.1	238.2	242.2	236.2
77.5°	100.1	144.1	186.1	170.1	174.1
80°	74.0	110.1	118.1	124.1	128.1
82.5°	50.0	74.0	76.0	80.1	80.1
85°	32.0	38.0	40.0	38.0	36.0
87.5°	14.0	16.0	12.0	8.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)