

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: P260319

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260319
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2570.0 lumens
Efficiency: N/A
Efficacy: 83.0 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

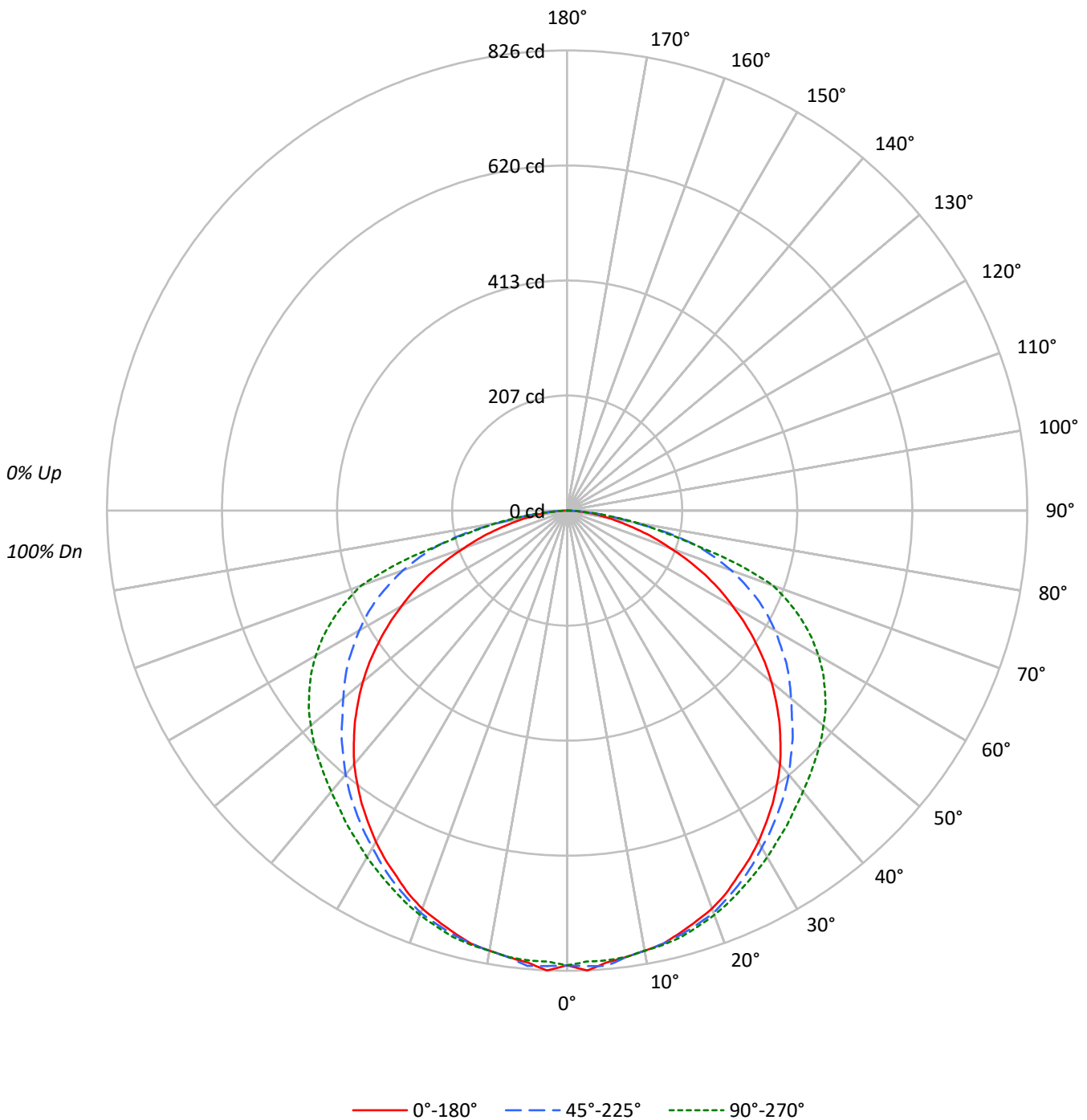
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2197	2197	2197
5°	2200	2216	2189
10°	2192	2192	2192
15°	2185	2196	2208
20°	2178	2200	2212
25°	2151	2187	2216
30°	2133	2170	2233
35°	2111	2170	2262
40°	2089	2173	2314
45°	2051	2180	2400
50°	2005	2197	2515
55°	1938	2257	2650
60°	1848	2320	2803
65°	1741	2402	2961
70°	1555	2465	3094
75°	1349	2469	2449
80°	1144	1826	1979
85°	985	1232	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	3.0
10°-20°	222.6	8.7
20°-30°	339.2	13.2
30°-40°	415.0	16.1
40°-50°	446.6	17.4
50°-60°	432.6	16.8
60°-70°	366.4	14.3
70°-80°	221.5	8.6
80°-90°	48.7	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°	639.3	24.9
0°-40°	1054.3	41.0
0°-60°	1933.4	75.2
0°-90°	2570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	814	814	820	816	810	77
15°	784	786	788	790	792	221
25°	724	728	736	742	746	334
35°	643	647	661	679	689	402
45°	539	549	573	609	631	415
55°	413	431	481	537	565	369
65°	273	303	377	437	465	269
75°	130	176	238	242	236	139
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°	816.3	816.3	816.3	816.3	816.3
2.5°	826.3	824.3	818.3	814.3	810.3
5°	814.3	814.3	820.3	816.3	810.3
7.5°	808.3	808.3	808.3	818.3	808.3
10°	802.3	804.3	802.3	810.3	802.3
12.5°	796.3	796.3	796.3	798.3	798.3
15°	784.4	786.4	788.4	790.4	792.4
17.5°	772.4	774.4	778.4	780.4	782.4
20°	760.4	762.4	768.4	768.4	772.4
22.5°	744.5	744.5	752.4	754.4	760.4
25°	724.5	728.5	736.5	742.5	746.4
27.5°	706.5	710.5	718.5	726.5	732.5
30°	686.6	690.6	698.5	710.5	718.5
32.5°	664.6	668.6	680.6	694.6	702.5
35°	642.7	646.7	660.6	678.6	688.6
37.5°	618.7	624.7	640.7	660.6	672.6
40°	594.8	600.7	618.7	640.7	658.6
42.5°	566.8	574.8	594.8	624.7	644.7
45°	538.9	548.9	572.8	608.7	630.7
47.5°	508.9	518.9	546.9	592.8	616.7
50°	479.0	491.0	524.9	574.8	600.7
52.5°	447.1	459.0	503.0	556.8	584.8
55°	413.1	431.1	481.0	536.9	564.8
57.5°	379.2	399.2	455.1	514.9	544.9
60°	343.3	367.2	431.1	491.0	520.9
62.5°	309.4	335.3	405.2	465.0	495.0
65°	273.4	303.4	377.2	437.1	465.0
67.5°	235.5	273.4	345.3	403.2	431.1
70°	197.6	241.5	313.3	367.2	393.2
72.5°	163.7	209.6	277.4	323.3	323.3
75°	129.7	175.6	237.5	241.5	235.5
77.5°	99.8	143.7	185.6	169.6	173.6
80°	73.8	109.8	117.8	123.7	127.7
82.5°	49.9	73.8	75.8	79.8	79.8
85°	31.9	37.9	39.9	37.9	35.9
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)