

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: P260239

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260239
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-L83050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2613.0 lumens
Efficiency: N/A
Efficacy: 82.6 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

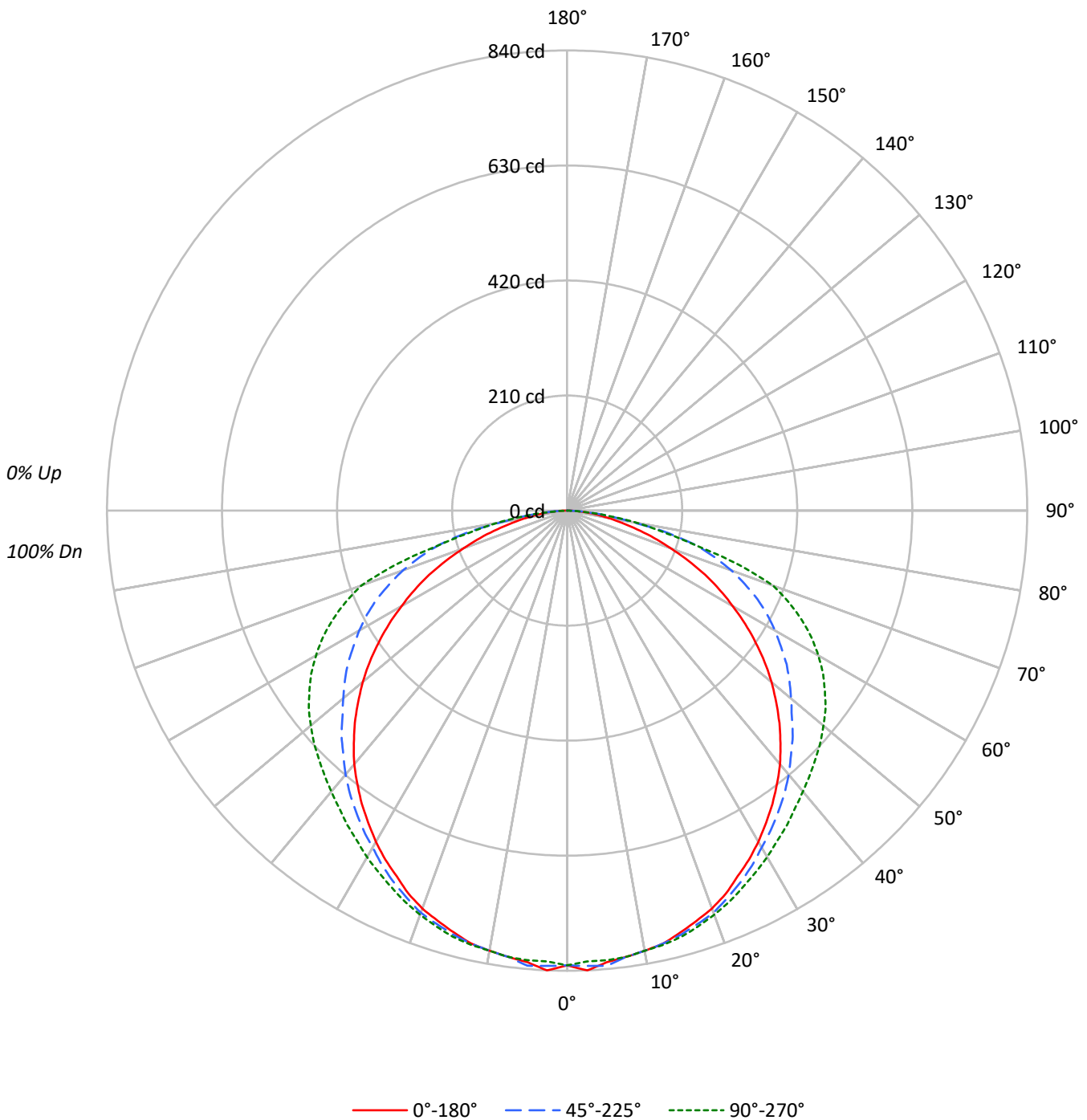
Input Watts (W): 31.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2234	2234	2234
5°	2236	2253	2226
10°	2229	2229	2229
15°	2222	2233	2244
20°	2214	2237	2249
25°	2187	2223	2253
30°	2169	2207	2270
35°	2146	2207	2300
40°	2124	2210	2352
45°	2085	2216	2440
50°	2039	2234	2557
55°	1971	2294	2694
60°	1878	2359	2850
65°	1770	2442	3011
70°	1581	2507	3146
75°	1371	2511	2490
80°	1164	1855	2013
85°	1003	1254	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.0
10°-20°	226.3	8.7
20°-30°	344.9	13.2
30°-40°	422.0	16.1
40°-50°	454.0	17.4
50°-60°	439.8	16.8
60°-70°	372.5	14.3
70°-80°	225.2	8.6
80°-90°	49.5	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°	650.0	24.9
0°-40°	1071.9	41.0
0°-60°	1965.8	75.2
0°-90°	2613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	828	828	834	830	824	79
15°	798	800	802	804	806	225
25°	737	741	749	755	759	340
35°	653	658	672	690	700	409
45°	548	558	582	619	641	422
55°	420	438	489	546	574	375
65°	278	308	384	444	473	274
75°	132	179	242	246	240	142
85°	32	39	41	39	36	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.0	830.0	830.0	830.0	830.0
2.5°	840.1	838.1	832.0	827.9	823.9
5°	827.9	827.9	834.0	830.0	823.9
7.5°	821.8	821.8	821.8	832.0	821.8
10°	815.8	817.8	815.8	823.9	815.8
12.5°	809.7	809.7	809.7	811.7	811.7
15°	797.5	799.5	801.5	803.6	805.6
17.5°	785.3	787.3	791.4	793.4	795.5
20°	773.1	775.2	781.3	781.3	785.3
22.5°	756.9	756.9	765.0	767.1	773.1
25°	736.6	740.7	748.8	754.9	758.9
27.5°	718.4	722.4	730.5	738.6	744.7
30°	698.1	702.1	710.2	722.4	730.5
32.5°	675.7	679.8	692.0	706.2	714.3
35°	653.4	657.5	671.7	689.9	700.1
37.5°	629.1	635.2	651.4	671.7	683.9
40°	604.7	610.8	629.1	651.4	669.6
42.5°	576.3	584.4	604.7	635.2	655.4
45°	547.9	558.0	582.4	618.9	641.2
47.5°	517.5	527.6	556.0	602.7	627.0
50°	487.0	499.2	533.7	584.4	610.8
52.5°	454.5	466.7	511.4	566.2	594.6
55°	420.1	438.3	489.0	545.9	574.3
57.5°	385.6	405.8	462.7	523.5	554.0
60°	349.0	373.4	438.3	499.2	529.6
62.5°	314.5	340.9	411.9	472.8	503.3
65°	278.0	308.4	383.5	444.4	472.8
67.5°	239.5	278.0	351.1	409.9	438.3
70°	200.9	245.5	318.6	373.4	399.8
72.5°	166.4	213.1	282.1	328.7	328.7
75°	131.9	178.6	241.5	245.5	239.5
77.5°	101.5	146.1	188.7	172.5	176.5
80°	75.1	111.6	119.7	125.8	129.9
82.5°	50.7	75.1	77.1	81.2	81.2
85°	32.5	38.6	40.6	38.6	36.5
87.5°	14.2	16.2	12.2	8.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)