

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: P260238

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260238
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2588.0 lumens
Efficiency: N/A
Efficacy: 84.1 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

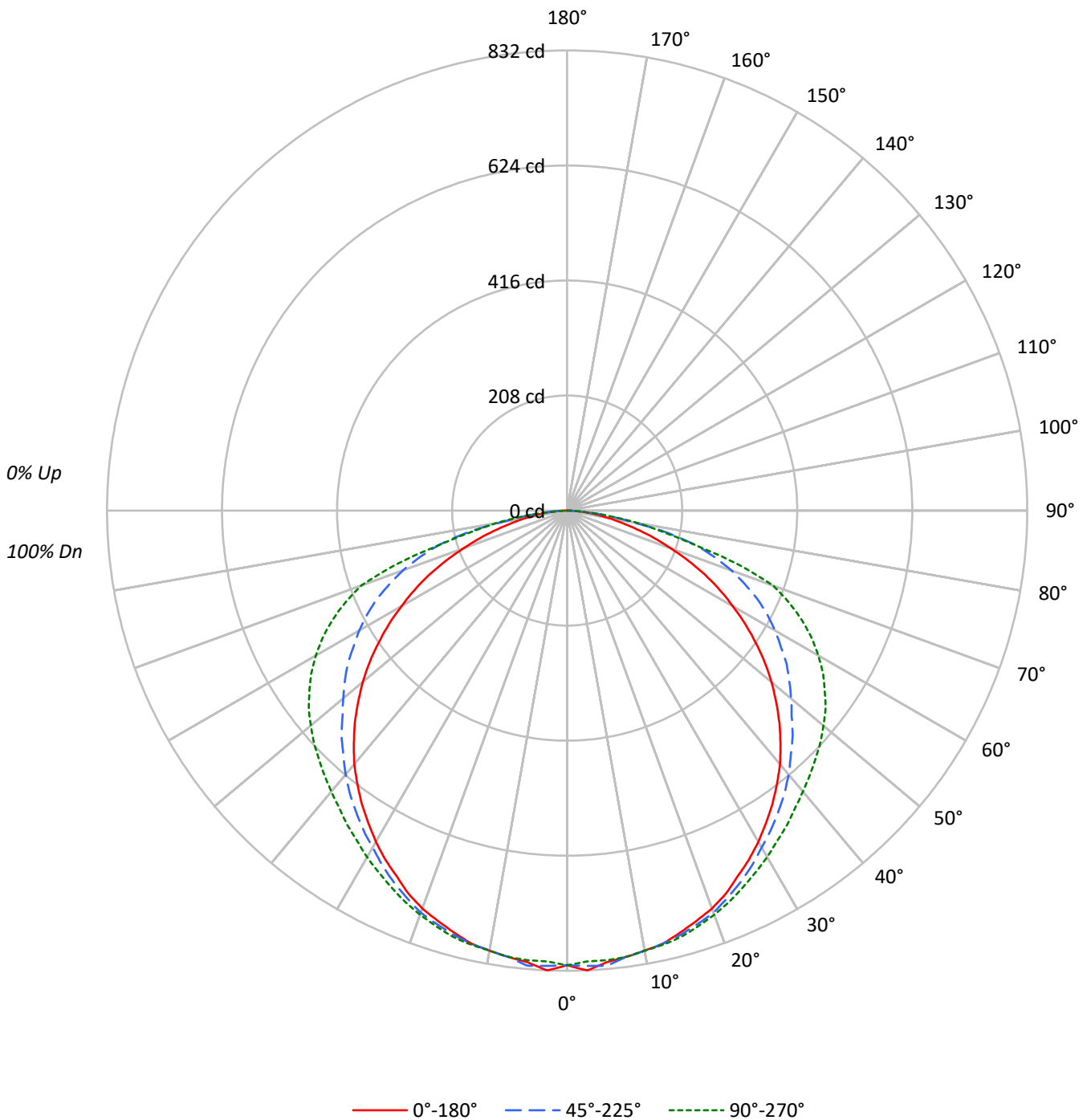
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2212	2212	2212
5°	2215	2231	2204
10°	2208	2208	2208
15°	2201	2212	2223
20°	2193	2216	2227
25°	2166	2202	2232
30°	2148	2186	2248
35°	2126	2186	2278
40°	2104	2188	2330
45°	2065	2195	2417
50°	2020	2213	2533
55°	1952	2273	2669
60°	1861	2336	2823
65°	1753	2419	2982
70°	1566	2482	3115
75°	1358	2487	2466
80°	1153	1838	1993
85°	994	1241	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.0
10°-20°	224.1	8.7
20°-30°	341.6	13.2
30°-40°	417.9	16.1
40°-50°	449.7	17.4
50°-60°	435.6	16.8
60°-70°	369.0	14.3
70°-80°	223.0	8.6
80°-90°	49.0	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°	643.8	24.9
0°-40°	1061.7	41.0
0°-60°	1947.0	75.2
0°-90°	2588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	820	820	826	822	816	78
15°	790	792	794	796	798	223
25°	730	734	742	748	752	337
35°	647	651	665	683	693	405
45°	543	553	577	613	635	418
55°	416	434	484	541	569	372
65°	275	306	380	440	468	271
75°	131	177	239	243	237	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°	822.0	822.0	822.0	822.0	822.0
2.5°	832.1	830.1	824.0	820.0	816.0
5°	820.0	820.0	826.0	822.0	816.0
7.5°	814.0	814.0	814.0	824.0	814.0
10°	807.9	810.0	807.9	816.0	807.9
12.5°	801.9	801.9	801.9	803.9	803.9
15°	789.9	791.9	793.9	795.9	797.9
17.5°	777.8	779.8	783.8	785.8	787.9
20°	765.7	767.8	773.8	773.8	777.8
22.5°	749.7	749.7	757.7	759.7	765.7
25°	729.6	733.6	741.6	747.7	751.7
27.5°	711.5	715.5	723.5	731.6	737.6
30°	691.4	695.4	703.4	715.5	723.5
32.5°	669.3	673.3	685.4	699.4	707.5
35°	647.2	651.2	665.3	683.3	693.4
37.5°	623.0	629.1	645.2	665.3	677.3
40°	598.9	605.0	623.0	645.2	663.2
42.5°	570.8	578.8	598.9	629.1	649.2
45°	542.7	552.7	576.8	613.0	635.1
47.5°	512.5	522.6	550.7	596.9	621.0
50°	482.4	494.4	528.6	578.8	605.0
52.5°	450.2	462.3	506.5	560.7	588.9
55°	416.0	434.1	484.4	540.6	568.8
57.5°	381.9	402.0	458.2	518.5	548.7
60°	345.7	369.8	434.1	494.4	524.6
62.5°	311.5	337.7	408.0	468.3	498.4
65°	275.3	305.5	379.9	440.2	468.3
67.5°	237.2	275.3	347.7	406.0	434.1
70°	199.0	243.2	315.5	369.8	395.9
72.5°	164.8	211.0	279.4	325.6	325.6
75°	130.6	176.9	239.2	243.2	237.2
77.5°	100.5	144.7	186.9	170.8	174.9
80°	74.4	110.5	118.6	124.6	128.6
82.5°	50.2	74.4	76.4	80.4	80.4
85°	32.2	38.2	40.2	38.2	36.2
87.5°	14.1	16.1	12.1	8.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)