

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: P260314

Luminaire Tested: **22CZ-LD5-39-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260314
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2408.0 lumens
Efficiency: N/A
Efficacy: 79.4 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

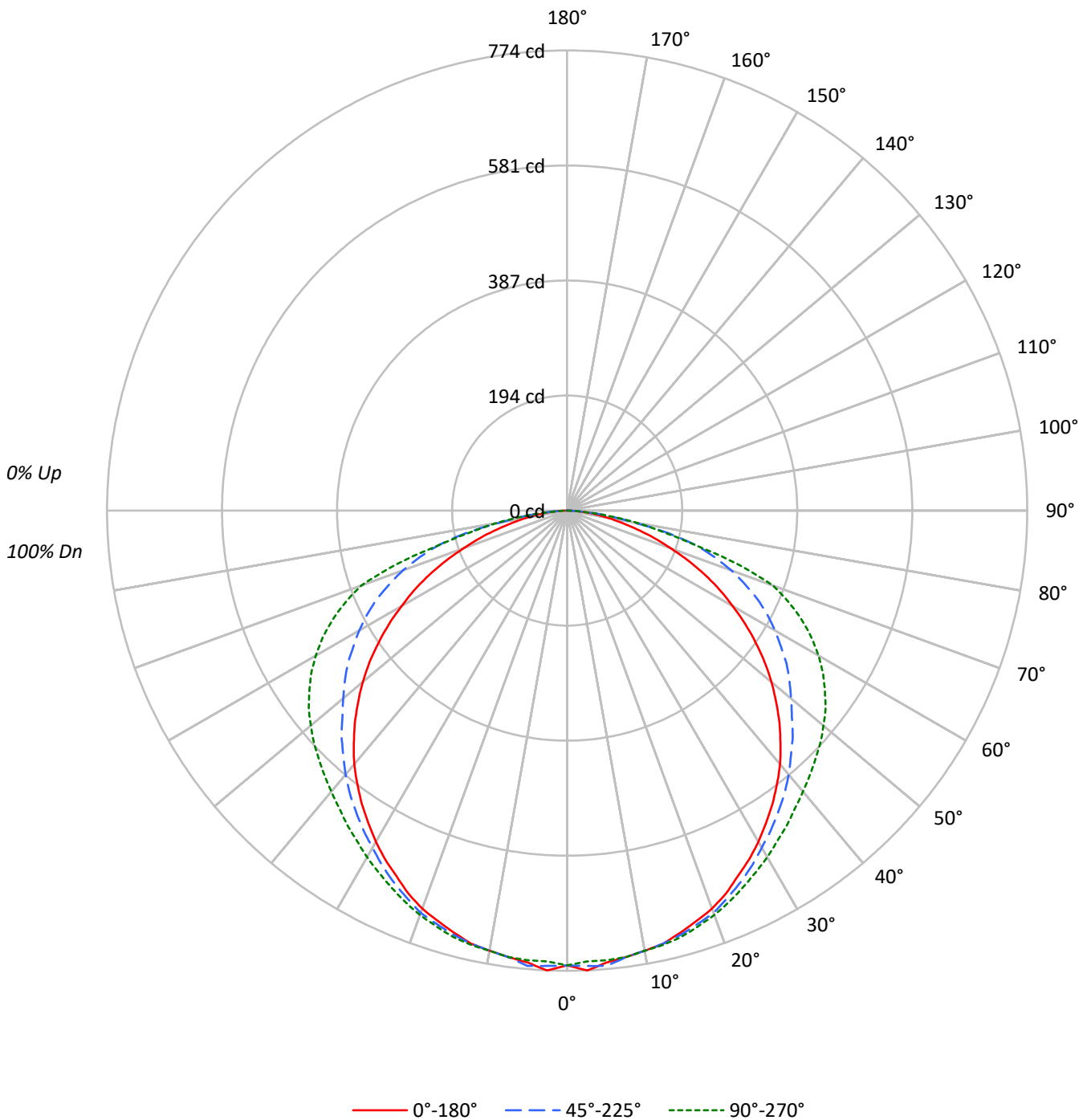
Input Watts (W): 30.318
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2058	2058	2058
5°	2061	2076	2051
10°	2054	2054	2054
15°	2047	2058	2068
20°	2040	2062	2072
25°	2015	2049	2077
30°	1999	2034	2092
35°	1978	2033	2120
40°	1958	2036	2168
45°	1921	2042	2249
50°	1879	2059	2357
55°	1816	2114	2483
60°	1731	2174	2627
65°	1631	2250	2774
70°	1456	2310	2899
75°	1264	2313	2295
80°	1072	1709	1855
85°	923	1155	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	3.0
10°-20°	208.6	8.7
20°-30°	317.8	13.2
30°-40°	388.9	16.1
40°-50°	418.4	17.4
50°-60°	405.3	16.8
60°-70°	343.3	14.3
70°-80°	207.5	8.6
80°-90°	45.6	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°	599.0	24.9
0°-40°	987.8	41.0
0°-60°	1811.5	75.2
0°-90°	2408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	763	763	769	765	759	73
15°	735	737	739	740	742	208
25°	679	683	690	696	699	313
35°	602	606	619	636	645	377
45°	505	514	537	570	591	389
55°	387	404	451	503	529	346
65°	256	284	353	410	436	252
75°	122	165	222	226	221	131
85°	30	36	37	36	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.8	764.8	764.8	764.8	764.8
2.5°	774.2	772.3	766.7	763.0	759.2
5°	763.0	763.0	768.6	764.8	759.2
7.5°	757.4	757.4	757.4	766.7	757.4
10°	751.8	753.6	751.8	759.2	751.8
12.5°	746.1	746.1	746.1	748.0	748.0
15°	734.9	736.8	738.7	740.5	742.4
17.5°	723.7	725.6	729.3	731.2	733.1
20°	712.5	714.4	720.0	720.0	723.7
22.5°	697.5	697.5	705.0	706.9	712.5
25°	678.8	682.6	690.0	695.7	699.4
27.5°	662.0	665.7	673.2	680.7	686.3
30°	643.3	647.0	654.5	665.7	673.2
32.5°	622.7	626.5	637.7	650.8	658.3
35°	602.2	605.9	619.0	635.8	645.2
37.5°	579.7	585.3	600.3	619.0	630.2
40°	557.3	562.9	579.7	600.3	617.1
42.5°	531.1	538.6	557.3	585.3	604.0
45°	504.9	514.3	536.7	570.4	590.9
47.5°	476.9	486.2	512.4	555.4	577.8
50°	448.8	460.0	491.8	538.6	562.9
52.5°	418.9	430.1	471.2	521.7	547.9
55°	387.1	403.9	450.7	503.0	529.2
57.5°	355.3	374.0	426.4	482.5	510.5
60°	321.6	344.1	403.9	460.0	488.1
62.5°	289.9	314.2	379.6	435.7	463.8
65°	256.2	284.2	353.4	409.5	435.7
67.5°	220.7	256.2	323.5	377.7	403.9
70°	185.1	226.3	293.6	344.1	368.4
72.5°	153.3	196.4	259.9	302.9	302.9
75°	121.6	164.6	222.5	226.3	220.7
77.5°	93.5	134.6	173.9	159.0	162.7
80°	69.2	102.9	110.3	115.9	119.7
82.5°	46.8	69.2	71.1	74.8	74.8
85°	29.9	35.5	37.4	35.5	33.7
87.5°	13.1	15.0	11.2	7.5	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)