

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: P260380

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260380
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-LD5-44-SQP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2557.0 lumens
Efficiency: N/A
Efficacy: 72.2 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

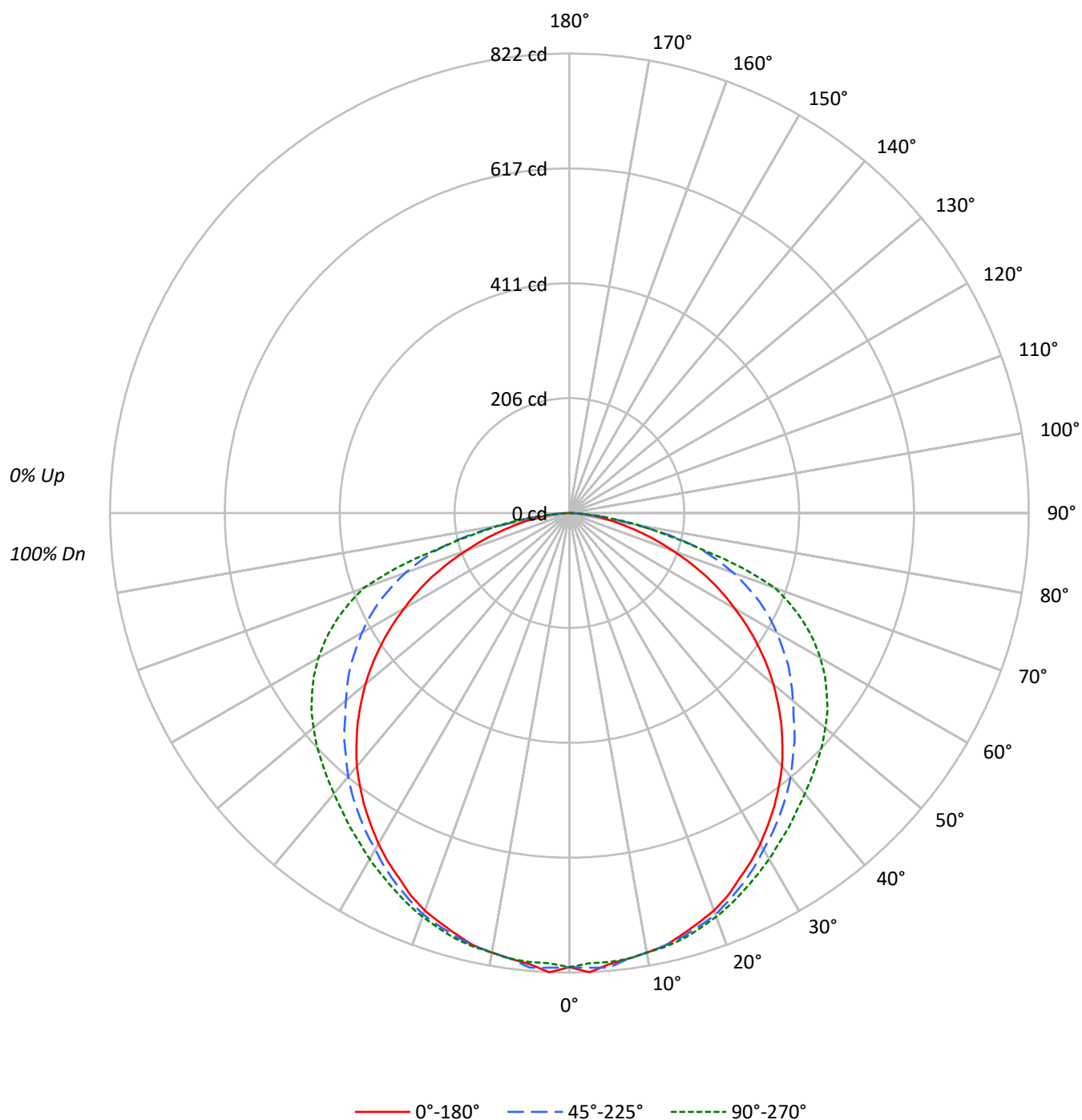
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2186	2186	2186
5°	2189	2204	2178
10°	2181	2181	2181
15°	2174	2185	2196
20°	2167	2189	2201
25°	2140	2176	2205
30°	2123	2160	2221
35°	2100	2159	2251
40°	2079	2162	2302
45°	2041	2169	2388
50°	1995	2187	2502
55°	1929	2245	2637
60°	1838	2308	2789
65°	1732	2390	2946
70°	1547	2453	3078
75°	1342	2457	2436
80°	1139	1816	1970
85°	982	1226	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	3.0
10°-20°	221.5	8.7
20°-30°	337.5	13.2
30°-40°	412.9	16.1
40°-50°	444.3	17.4
50°-60°	430.4	16.8
60°-70°	364.6	14.3
70°-80°	220.4	8.6
80°-90°	48.4	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°	636.0	24.9
0°-40°	1049.0	41.0
0°-60°	1923.7	75.2
0°-90°	2557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	812	812	812	812	812	
5°	810	810	816	812	806	77
15°	780	782	784	786	788	220
25°	721	725	733	739	743	333
35°	639	643	657	675	685	400
45°	536	546	570	606	628	413
55°	411	429	479	534	562	367
65°	272	302	375	435	463	268
75°	129	175	236	240	234	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°	812.2	812.2	812.2	812.2	812.2
2.5°	822.1	820.1	814.2	810.2	806.2
5°	810.2	810.2	816.1	812.2	806.2
7.5°	804.2	804.2	804.2	814.2	804.2
10°	798.3	800.3	798.3	806.2	798.3
12.5°	792.3	792.3	792.3	794.3	794.3
15°	780.4	782.4	784.4	786.4	788.3
17.5°	768.5	770.5	774.4	776.4	778.4
20°	756.6	758.6	764.5	764.5	768.5
22.5°	740.7	740.7	748.6	750.6	756.6
25°	720.8	724.8	732.7	738.7	742.7
27.5°	703.0	706.9	714.9	722.8	728.8
30°	683.1	687.1	695.0	706.9	714.9
32.5°	661.3	665.2	677.1	691.0	699.0
35°	639.4	643.4	657.3	675.2	685.1
37.5°	615.6	621.5	637.4	657.3	669.2
40°	591.8	597.7	615.6	637.4	655.3
42.5°	564.0	571.9	591.8	621.5	641.4
45°	536.2	546.1	569.9	605.7	627.5
47.5°	506.4	516.3	544.1	589.8	613.6
50°	476.6	488.5	522.3	571.9	597.7
52.5°	444.8	456.7	500.4	554.0	581.8
55°	411.1	428.9	478.6	534.2	562.0
57.5°	377.3	397.2	452.8	512.3	542.1
60°	341.5	365.4	428.9	488.5	518.3
62.5°	307.8	333.6	403.1	462.7	492.5
65°	272.0	301.8	375.3	434.9	462.7
67.5°	234.3	272.0	343.5	401.1	428.9
70°	196.6	240.3	311.8	365.4	391.2
72.5°	162.8	208.5	276.0	321.7	321.7
75°	129.1	174.7	236.3	240.3	234.3
77.5°	99.3	143.0	184.7	168.8	172.8
80°	73.5	109.2	117.2	123.1	127.1
82.5°	49.6	73.5	75.5	79.4	79.4
85°	31.8	37.7	39.7	37.7	35.7
87.5°	13.9	15.9	11.9	7.9	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)