

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: P260375

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260375
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-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2167.0 lumens
Efficiency: N/A
Efficacy: 62.8 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

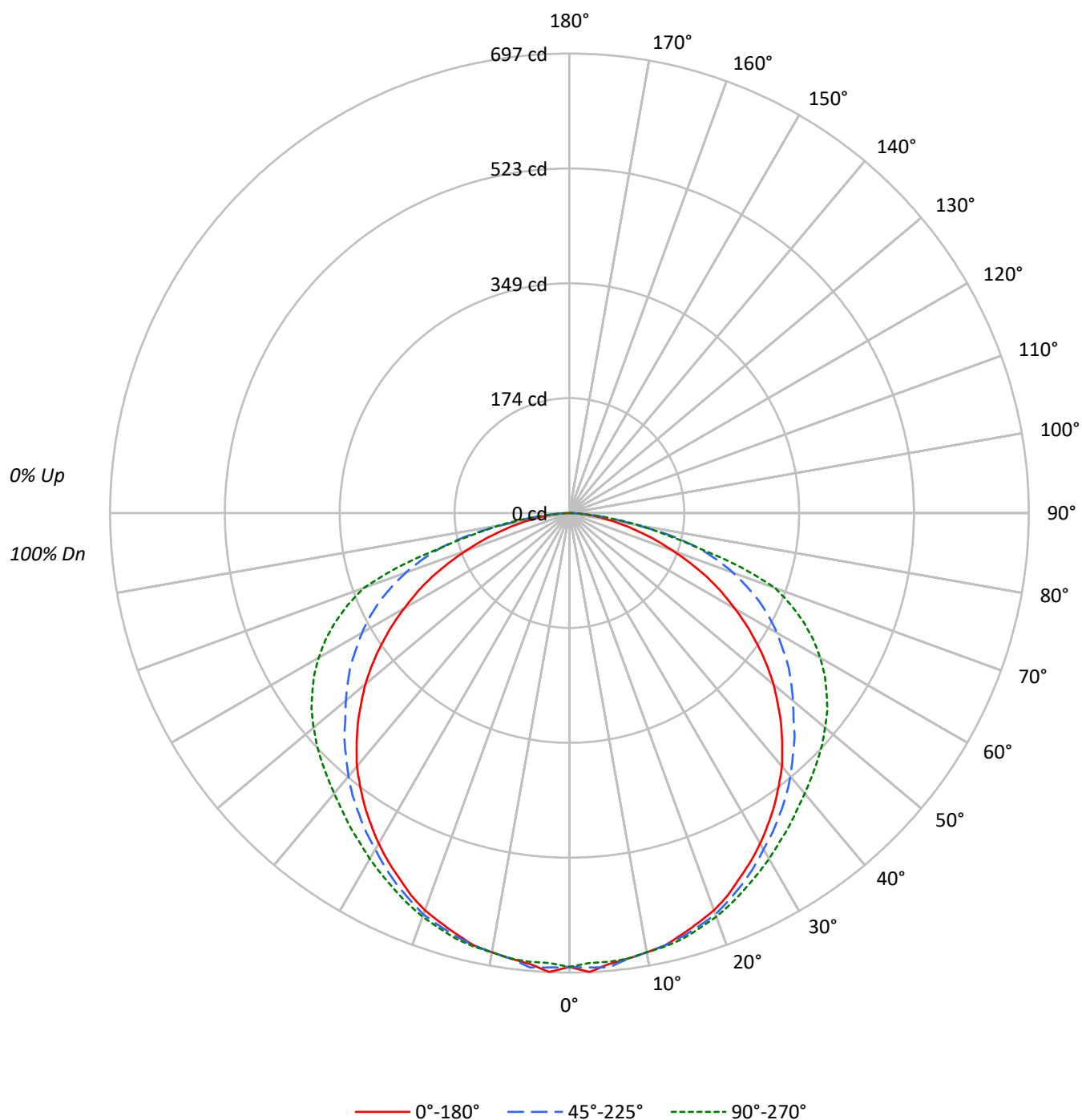
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1852	1852	1852
5°	1855	1868	1845
10°	1849	1849	1849
15°	1843	1852	1861
20°	1836	1855	1865
25°	1814	1844	1869
30°	1799	1830	1882
35°	1780	1830	1907
40°	1762	1833	1951
45°	1729	1838	2024
50°	1691	1853	2120
55°	1635	1903	2235
60°	1558	1956	2364
65°	1468	2025	2497
70°	1311	2079	2608
75°	1137	2083	2065
80°	965	1539	1669
85°	831	1041	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	3.0
10°-20°	187.7	8.7
20°-30°	286.0	13.2
30°-40°	349.9	16.1
40°-50°	376.5	17.4
50°-60°	364.7	16.8
60°-70°	309.0	14.3
70°-80°	186.8	8.6
80°-90°	41.0	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°	539.0	24.9
0°-40°	889.0	41.0
0°-60°	1630.2	75.2
0°-90°	2167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	687	687	692	688	683	65
15°	661	663	665	666	668	187
25°	611	614	621	626	629	282
35°	542	545	557	572	581	339
45°	454	463	483	513	532	350
55°	348	364	406	453	476	311
65°	231	256	318	369	392	227
75°	109	148	200	204	199	118
85°	27	32	34	32	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.3	688.3	688.3	688.3	688.3
2.5°	696.7	695.0	690.0	686.6	683.2
5°	686.6	686.6	691.7	688.3	683.2
7.5°	681.6	681.6	681.6	690.0	681.6
10°	676.5	678.2	676.5	683.2	676.5
12.5°	671.5	671.5	671.5	673.2	673.2
15°	661.4	663.1	664.7	666.4	668.1
17.5°	651.3	653.0	656.3	658.0	659.7
20°	641.2	642.9	647.9	647.9	651.3
22.5°	627.7	627.7	634.4	636.1	641.2
25°	610.9	614.3	621.0	626.0	629.4
27.5°	595.7	599.1	605.8	612.6	617.6
30°	578.9	582.3	589.0	599.1	605.8
32.5°	560.4	563.8	573.9	585.6	592.4
35°	541.9	545.3	557.0	572.2	580.6
37.5°	521.7	526.7	540.2	557.0	567.1
40°	501.5	506.5	521.7	540.2	555.3
42.5°	477.9	484.7	501.5	526.7	543.6
45°	454.4	462.8	483.0	513.3	531.8
47.5°	429.1	437.5	461.1	499.8	520.0
50°	403.9	414.0	442.6	484.7	506.5
52.5°	377.0	387.1	424.1	469.5	493.1
55°	348.4	363.5	405.6	452.7	476.3
57.5°	319.7	336.6	383.7	434.2	459.4
60°	289.5	309.6	363.5	414.0	439.2
62.5°	260.8	282.7	341.6	392.1	417.4
65°	230.6	255.8	318.1	368.6	392.1
67.5°	198.6	230.6	291.1	339.9	363.5
70°	166.6	203.6	264.2	309.6	331.5
72.5°	138.0	176.7	233.9	272.6	272.6
75°	109.4	148.1	200.3	203.6	198.6
77.5°	84.1	121.2	156.5	143.0	146.4
80°	62.3	92.6	99.3	104.3	107.7
82.5°	42.1	62.3	63.9	67.3	67.3
85°	26.9	32.0	33.7	32.0	30.3
87.5°	11.8	13.5	10.1	6.7	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)