

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: P259526

Luminaire Tested: **22CZ-LD5-39-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3148.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

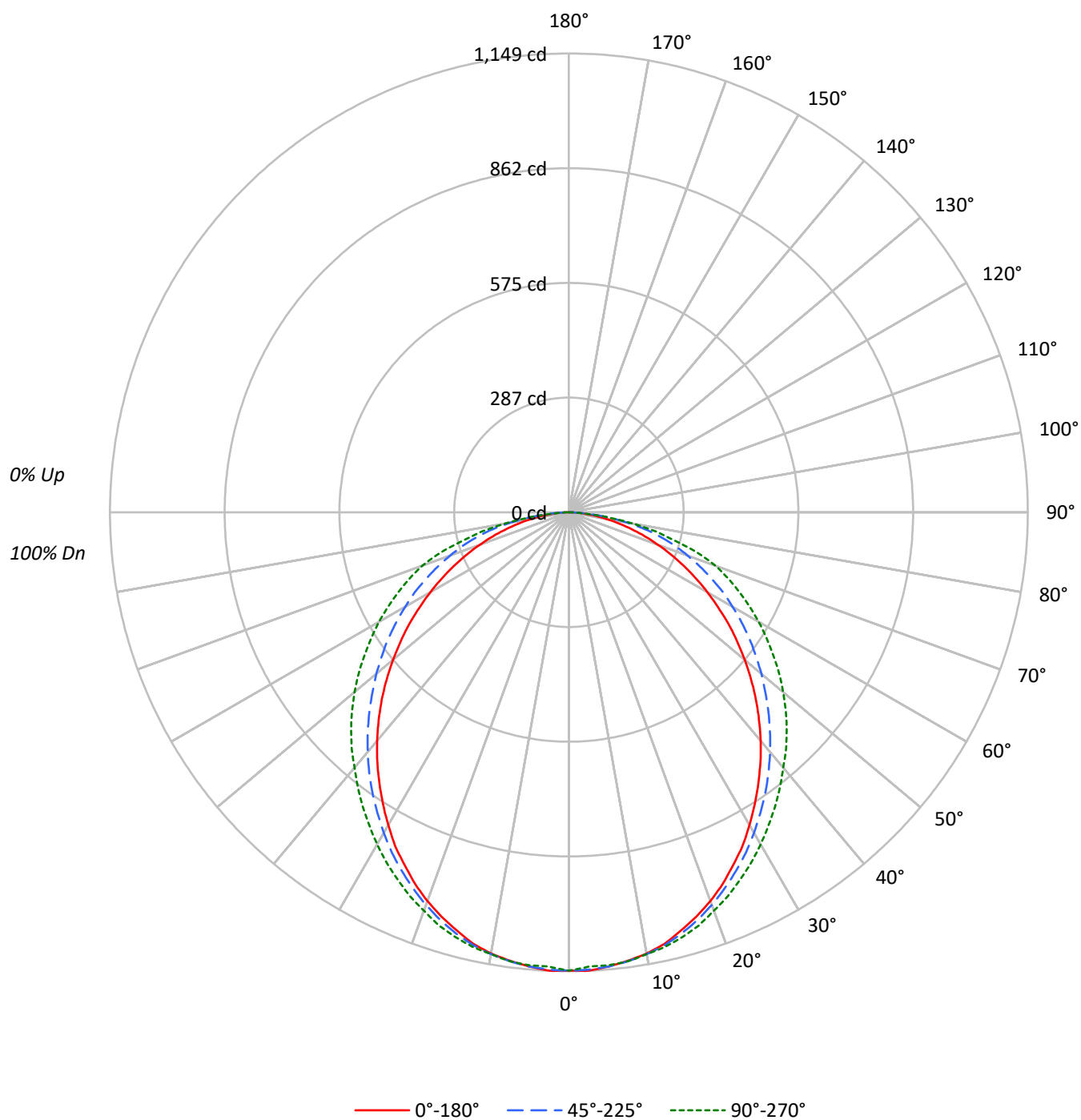
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3088	3088	3088
5°	3084	3084	3076
10°	3066	3070	3070
15°	3020	3041	3067
20°	2966	2996	3040
25°	2891	2941	3013
30°	2810	2880	2983
35°	2717	2816	2956
40°	2624	2751	2932
45°	2520	2687	2935
50°	2406	2633	2931
55°	2291	2589	2930
60°	2157	2547	2954
65°	2022	2513	2994
70°	1868	2486	3069
75°	1682	2468	2846
80°	1477	2297	2484
85°	1213	1726	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.4
10°-20°	307.9	9.8
20°-30°	457.3	14.5
30°-40°	538.2	17.1
40°-50°	548.7	17.4
50°-60°	494.9	15.7
60°-70°	389.8	12.4
70°-80°	240.5	7.6
80°-90°	62.4	2.0
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°	873.5	27.7
0°-40°	1411.7	44.8
0°-60°	2455.3	78.0
0°-90°	3148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1142	1143	1142	1140	1139	108
15°	1084	1089	1092	1098	1101	306
25°	974	980	990	1007	1015	449
35°	827	836	857	884	900	517
45°	662	673	706	748	771	510
55°	488	505	552	602	624	436
65°	318	340	395	444	470	315
75°	162	189	237	265	274	173
85°	39	50	56	53	50	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1149.1	1149.1	1146.1	1143.1	1138.6
5°	1141.6	1143.1	1141.6	1140.1	1138.6
7.5°	1132.5	1134.0	1134.0	1134.0	1134.0
10°	1121.9	1123.4	1123.4	1123.4	1123.4
12.5°	1106.8	1108.3	1109.8	1111.3	1114.4
15°	1084.1	1088.7	1091.7	1097.7	1100.8
17.5°	1061.4	1066.0	1070.5	1078.1	1084.1
20°	1035.7	1038.8	1046.3	1055.4	1061.4
22.5°	1007.0	1011.5	1019.1	1031.2	1040.3
25°	973.7	979.8	990.4	1007.0	1014.6
27.5°	942.0	946.5	960.1	978.3	988.9
30°	904.2	910.2	926.9	949.6	960.1
32.5°	866.4	874.0	892.1	917.8	929.9
35°	827.1	836.2	857.3	884.5	899.7
37.5°	787.8	796.8	821.0	851.3	867.9
40°	746.9	756.0	783.2	816.5	834.6
42.5°	704.6	715.2	745.4	783.2	804.4
45°	662.3	672.9	706.1	748.5	771.1
47.5°	618.4	630.5	666.8	713.7	736.4
50°	574.6	588.2	629.0	677.4	700.1
52.5°	530.7	545.8	589.7	639.6	663.8
55°	488.4	505.0	551.9	601.8	624.5
57.5°	443.0	462.7	512.6	561.0	586.7
60°	400.7	421.9	473.3	521.7	548.9
62.5°	358.4	381.0	435.5	483.9	509.6
65°	317.5	340.2	394.6	444.5	470.2
67.5°	276.7	302.4	355.3	405.2	430.9
70°	237.4	264.6	316.0	364.4	390.1
72.5°	199.6	226.8	278.2	323.6	338.7
75°	161.8	189.0	237.4	264.6	273.7
77.5°	127.0	152.7	195.1	211.7	223.8
80°	95.3	117.9	148.2	158.8	160.3
82.5°	65.0	84.7	102.8	104.3	102.8
85°	39.3	49.9	55.9	52.9	49.9
87.5°	18.1	19.7	18.1	12.1	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)