

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: P259354

Luminaire Tested: **22CZ-LD5-34-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3176.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

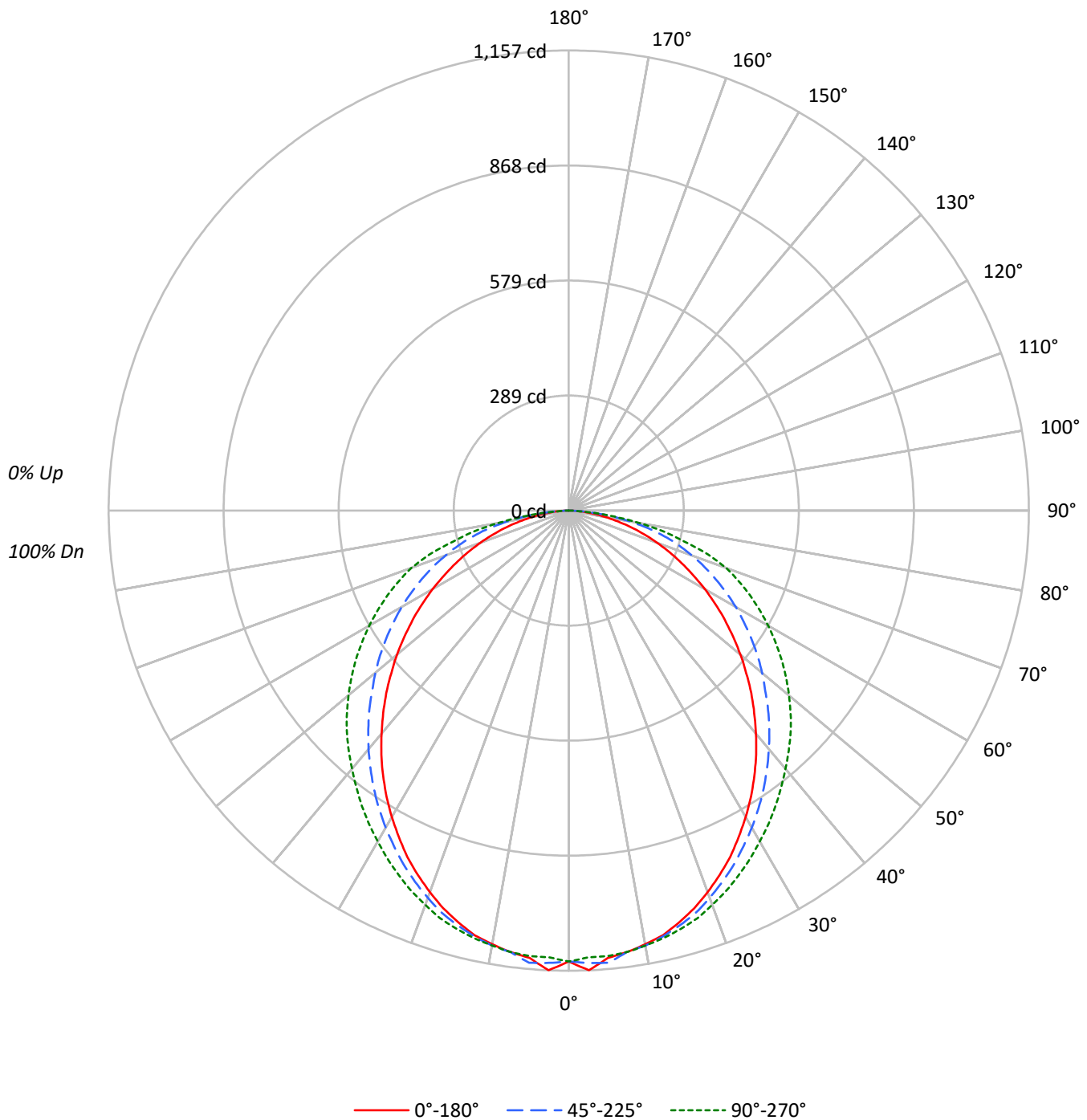
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3050	3050	3050
5°	3050	3083	3037
10°	3026	3034	3034
15°	2986	3008	3033
20°	2924	2968	3021
25°	2852	2917	3004
30°	2764	2860	2985
35°	2674	2806	2978
40°	2572	2751	2979
45°	2469	2698	3003
50°	2360	2658	3026
55°	2246	2630	3065
60°	2128	2610	3117
65°	1996	2596	3196
70°	1859	2589	3305
75°	1686	2586	3132
80°	1460	2393	2777
85°	1241	1812	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.4
10°-20°	304.6	9.6
20°-30°	453.1	14.3
30°-40°	535.8	16.9
40°-50°	550.8	17.3
50°-60°	503.2	15.8
60°-70°	402.6	12.7
70°-80°	252.7	8.0
80°-90°	65.8	2.1
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°	865.1	27.2
0°-40°	1401.0	44.1
0°-60°	2455.0	77.3
0°-90°	3176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1129	1129	1141	1134	1124	107
15°	1072	1073	1080	1086	1089	302
25°	961	967	982	999	1012	442
35°	814	825	854	886	907	509
45°	649	666	709	761	789	500
55°	479	502	561	622	653	428
65°	314	341	408	470	502	311
75°	162	193	249	286	301	172
85°	40	51	59	57	57	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.6	1133.6	1133.6	1133.6	1133.6
2.5°	1156.8	1152.2	1138.3	1129.0	1124.4
5°	1129.0	1129.0	1141.3	1133.6	1124.4
7.5°	1119.7	1119.7	1119.7	1142.9	1119.7
10°	1107.4	1108.9	1110.5	1119.7	1110.5
12.5°	1093.5	1093.5	1096.6	1099.6	1101.2
15°	1071.8	1073.4	1079.6	1085.7	1088.8
17.5°	1048.7	1053.3	1061.0	1068.8	1074.9
20°	1020.9	1027.1	1036.3	1048.7	1054.9
22.5°	991.5	997.7	1010.1	1024.0	1034.8
25°	960.6	966.8	982.3	999.3	1011.6
27.5°	925.1	932.8	951.4	974.5	986.9
30°	889.6	898.9	920.5	946.7	960.6
32.5°	852.5	863.3	888.1	917.4	934.4
35°	813.9	824.7	854.1	886.5	906.6
37.5°	773.8	786.1	818.6	855.6	877.2
40°	732.1	746.0	783.0	823.2	847.9
42.5°	690.4	705.8	746.0	793.8	818.6
45°	648.7	665.7	708.9	761.4	789.2
47.5°	605.4	625.5	670.3	729.0	756.8
50°	563.7	583.8	634.8	695.0	722.8
52.5°	520.5	543.6	597.7	659.5	688.8
55°	478.8	501.9	560.6	622.4	653.3
57.5°	437.1	460.2	522.0	585.3	616.2
60°	395.4	420.1	485.0	546.7	579.2
62.5°	353.7	379.9	446.3	509.7	540.6
65°	313.5	341.3	407.7	469.5	501.9
67.5°	274.9	304.3	369.1	429.4	461.8
70°	236.3	265.6	329.0	387.7	420.1
72.5°	199.2	228.6	290.4	342.9	367.6
75°	162.2	193.1	248.7	285.7	301.2
77.5°	126.6	157.5	205.4	230.1	247.1
80°	94.2	120.5	154.4	173.0	179.2
82.5°	64.9	86.5	108.1	112.7	115.8
85°	40.2	51.0	58.7	57.1	57.1
87.5°	18.5	20.1	17.0	12.4	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)