

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: P259352

Luminaire Tested: **22CZ-LD5-34-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259352
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3035.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

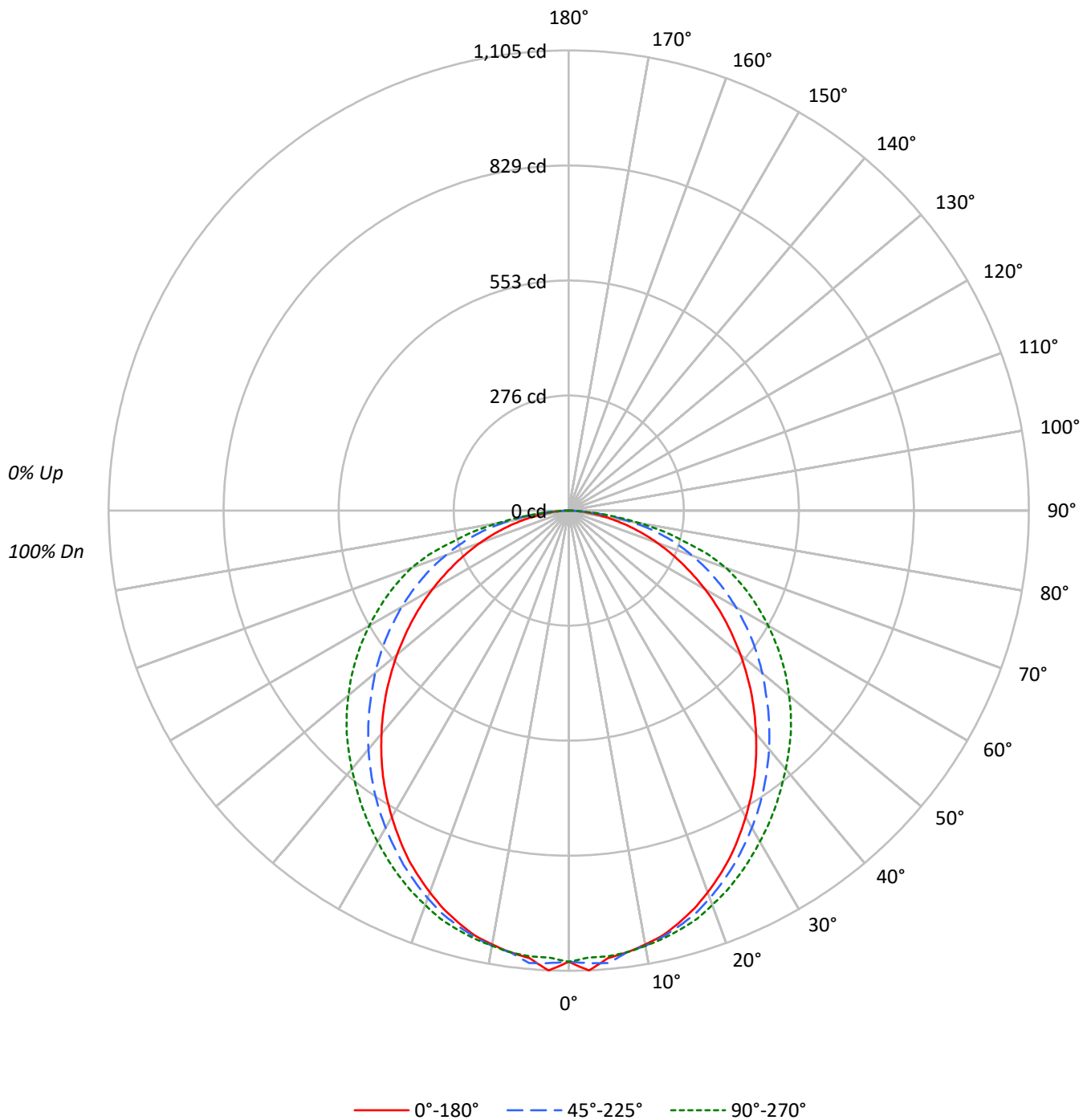
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2915	2915	2915
5°	2914	2946	2902
10°	2892	2900	2900
15°	2854	2874	2899
20°	2794	2836	2887
25°	2726	2787	2870
30°	2641	2733	2852
35°	2555	2681	2846
40°	2458	2629	2846
45°	2359	2578	2870
50°	2255	2539	2892
55°	2146	2513	2929
60°	2033	2494	2979
65°	1908	2481	3054
70°	1777	2474	3158
75°	1612	2470	2992
80°	1395	2287	2653
85°	1186	1732	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.4
10°-20°	291.0	9.6
20°-30°	432.9	14.3
30°-40°	512.0	16.9
40°-50°	526.3	17.3
50°-60°	480.9	15.8
60°-70°	384.7	12.7
70°-80°	241.4	8.0
80°-90°	62.9	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°	826.7	27.2
0°-40°	1338.8	44.1
0°-60°	2346.0	77.3
0°-90°	3035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1079	1079	1091	1083	1074	103
15°	1024	1026	1032	1038	1040	289
25°	918	924	939	955	967	422
35°	778	788	816	847	866	486
45°	620	636	677	728	754	478
55°	458	480	536	595	624	409
65°	300	326	390	449	480	297
75°	155	184	238	273	288	165
85°	38	49	56	55	55	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.3	1083.3	1083.3	1083.3	1083.3
2.5°	1105.4	1101.0	1087.7	1078.9	1074.4
5°	1078.9	1078.9	1090.7	1083.3	1074.4
7.5°	1070.0	1070.0	1070.0	1092.1	1070.0
10°	1058.2	1059.7	1061.2	1070.0	1061.2
12.5°	1044.9	1044.9	1047.9	1050.8	1052.3
15°	1024.3	1025.7	1031.6	1037.5	1040.5
17.5°	1002.1	1006.5	1013.9	1021.3	1027.2
20°	975.6	981.5	990.3	1002.1	1008.0
22.5°	947.5	953.4	965.2	978.5	988.8
25°	918.0	923.9	938.7	954.9	966.7
27.5°	884.1	891.4	909.1	931.3	943.1
30°	850.1	859.0	879.6	904.7	918.0
32.5°	814.7	825.0	848.6	876.7	892.9
35°	777.8	788.1	816.2	847.2	866.3
37.5°	739.4	751.2	782.2	817.6	838.3
40°	699.6	712.8	748.3	786.6	810.3
42.5°	659.7	674.5	712.8	758.6	782.2
45°	619.9	636.1	677.4	727.6	754.2
47.5°	578.5	597.7	640.5	696.6	723.2
50°	538.7	557.9	606.6	664.1	690.7
52.5°	497.4	519.5	571.2	630.2	658.2
55°	457.5	479.7	535.7	594.8	624.3
57.5°	417.7	439.8	498.8	559.4	588.9
60°	377.8	401.4	463.4	522.5	553.5
62.5°	338.0	363.1	426.5	487.0	516.6
65°	299.6	326.2	389.6	448.7	479.7
67.5°	262.7	290.7	352.7	410.3	441.3
70°	225.8	253.9	314.4	370.4	401.4
72.5°	190.4	218.4	277.5	327.6	351.3
75°	155.0	184.5	237.6	273.0	287.8
77.5°	121.0	150.5	196.3	219.9	236.1
80°	90.0	115.1	147.6	165.3	171.2
82.5°	62.0	82.6	103.3	107.7	110.7
85°	38.4	48.7	56.1	54.6	54.6
87.5°	17.7	19.2	16.2	11.8	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)