

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: P#

Luminaire Tested: **24CZ-LD5-75-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-S-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8430.4 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

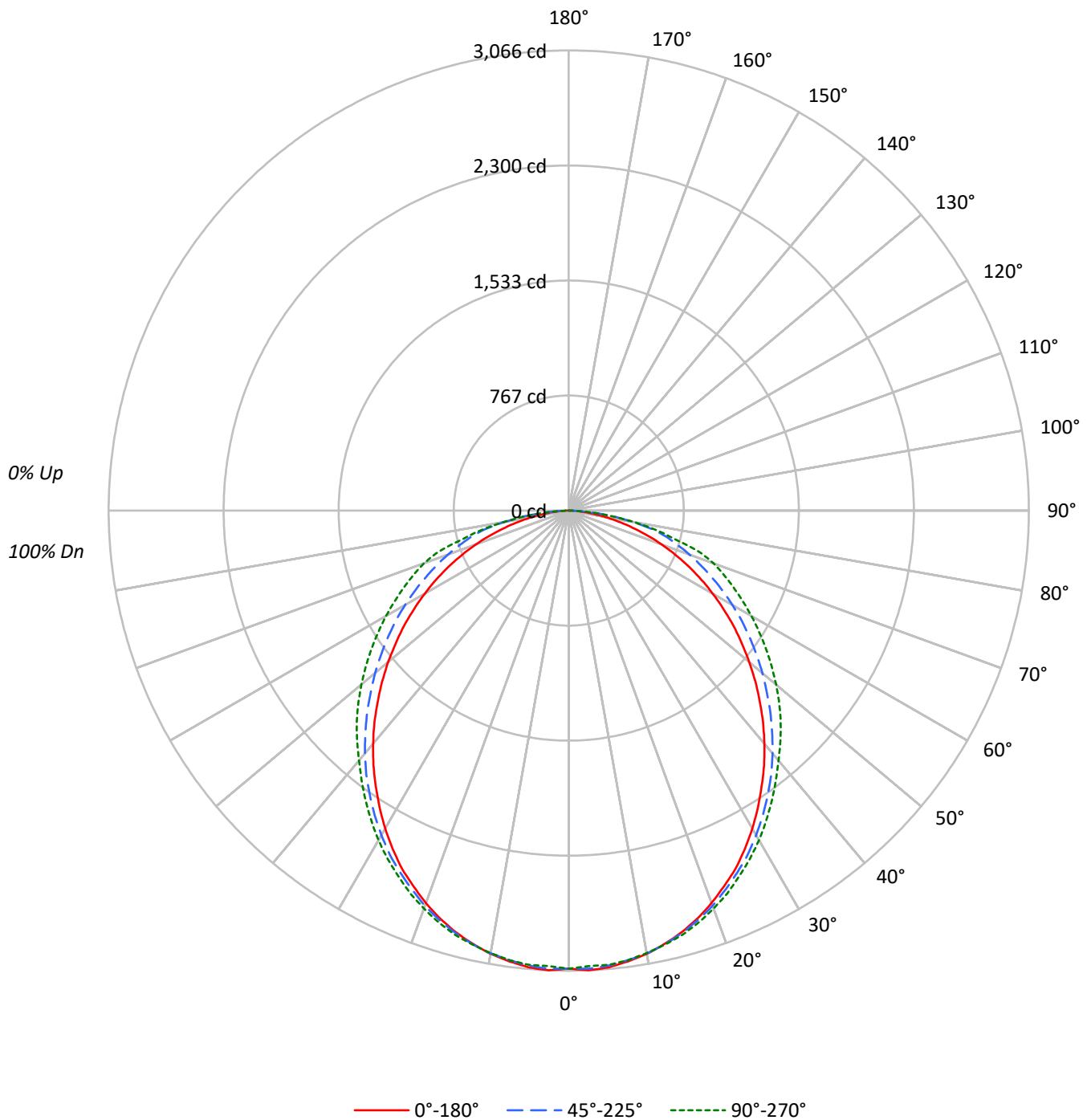
Input Watts (W): 69.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50		
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4106	4106	4106
5°	4117	4092	4085
10°	4079	4055	4054
15°	4025	4003	4021
20°	3948	3936	3968
25°	3861	3853	3899
30°	3746	3764	3829
35°	3618	3661	3744
40°	3489	3552	3665
45°	3343	3432	3620
50°	3193	3314	3563
55°	3037	3205	3513
60°	2858	3104	3480
65°	2662	3007	3484
70°	2416	2938	3551
75°	2094	2909	3171
80°	1676	2540	2642
85°	1112	1645	1543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.6	3.4
10°-20°	820.6	9.7
20°-30°	1223.0	14.5
30°-40°	1439.6	17.1
40°-50°	1463.0	17.4
50°-60°	1315.3	15.6
60°-70°	1039.1	12.3
70°-80°	659.2	7.8
80°-90°	181.9	2.2
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°	2332.2	27.7
0°-40°	3771.8	44.7
0°-60°	6550.1	77.7
0°-90°	8430.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8430.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3052	3052	3052	3052	3052	
5°	3055	3030	3044	3038	3038	290
15°	2909	2895	2914	2923	2926	819
25°	2631	2628	2659	2676	2687	1210
35°	2241	2255	2311	2337	2359	1402
45°	1801	1826	1899	1955	1997	1390
55°	1341	1374	1470	1565	1604	1197
65°	881	926	1052	1167	1212	872
75°	440	516	670	729	724	469
85°	93	160	171	157	157	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3052.0	3052.0	3052.0	3052.0	3052.0
2.5°	3066.0	3043.6	3054.8	3049.2	3038.0
5°	3054.8	3029.5	3043.6	3038.0	3038.0
7.5°	3029.5	3009.9	3021.1	3018.3	3021.1
10°	2998.7	2979.0	2995.9	2995.9	2993.1
12.5°	2956.6	2939.8	2959.4	2959.4	2962.2
15°	2908.9	2894.9	2914.5	2922.9	2925.7
17.5°	2850.0	2836.0	2861.2	2869.6	2878.1
20°	2782.7	2777.1	2802.3	2810.7	2822.0
22.5°	2706.9	2706.9	2732.2	2743.4	2760.2
25°	2631.2	2628.4	2659.3	2676.1	2687.3
27.5°	2541.4	2544.2	2583.5	2600.4	2614.4
30°	2446.1	2451.7	2496.6	2516.2	2535.8
32.5°	2345.1	2356.3	2406.8	2429.2	2448.9
35°	2241.3	2255.3	2311.4	2336.7	2359.1
37.5°	2137.5	2157.1	2216.0	2241.3	2266.5
40°	2028.1	2044.9	2112.3	2143.1	2174.0
42.5°	1915.9	1938.3	2005.7	2050.5	2087.0
45°	1800.9	1826.1	1899.1	1955.2	1997.3
47.5°	1685.9	1719.5	1789.7	1865.4	1901.9
50°	1570.9	1604.5	1683.1	1767.2	1803.7
52.5°	1453.1	1486.7	1576.5	1663.4	1702.7
55°	1340.9	1374.5	1469.9	1565.3	1604.5
57.5°	1223.0	1259.5	1366.1	1464.3	1503.5
60°	1108.0	1144.5	1259.5	1363.3	1405.4
62.5°	995.8	1035.1	1155.7	1265.1	1307.2
65°	880.8	925.7	1051.9	1166.9	1211.8
67.5°	768.6	819.1	950.9	1071.6	1119.2
70°	656.4	715.3	855.6	979.0	1026.7
72.5°	547.0	611.5	760.2	883.6	908.9
75°	440.4	516.1	670.4	729.3	723.7
77.5°	339.4	423.6	569.4	580.7	597.5
80°	246.9	339.4	426.4	448.8	437.6
82.5°	162.7	255.3	305.8	294.5	291.7
85°	92.6	159.9	171.1	157.1	157.1
87.5°	39.3	64.5	56.1	42.1	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)