

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: P260782

Luminaire Tested: **24CZ-LD5-70-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7370.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

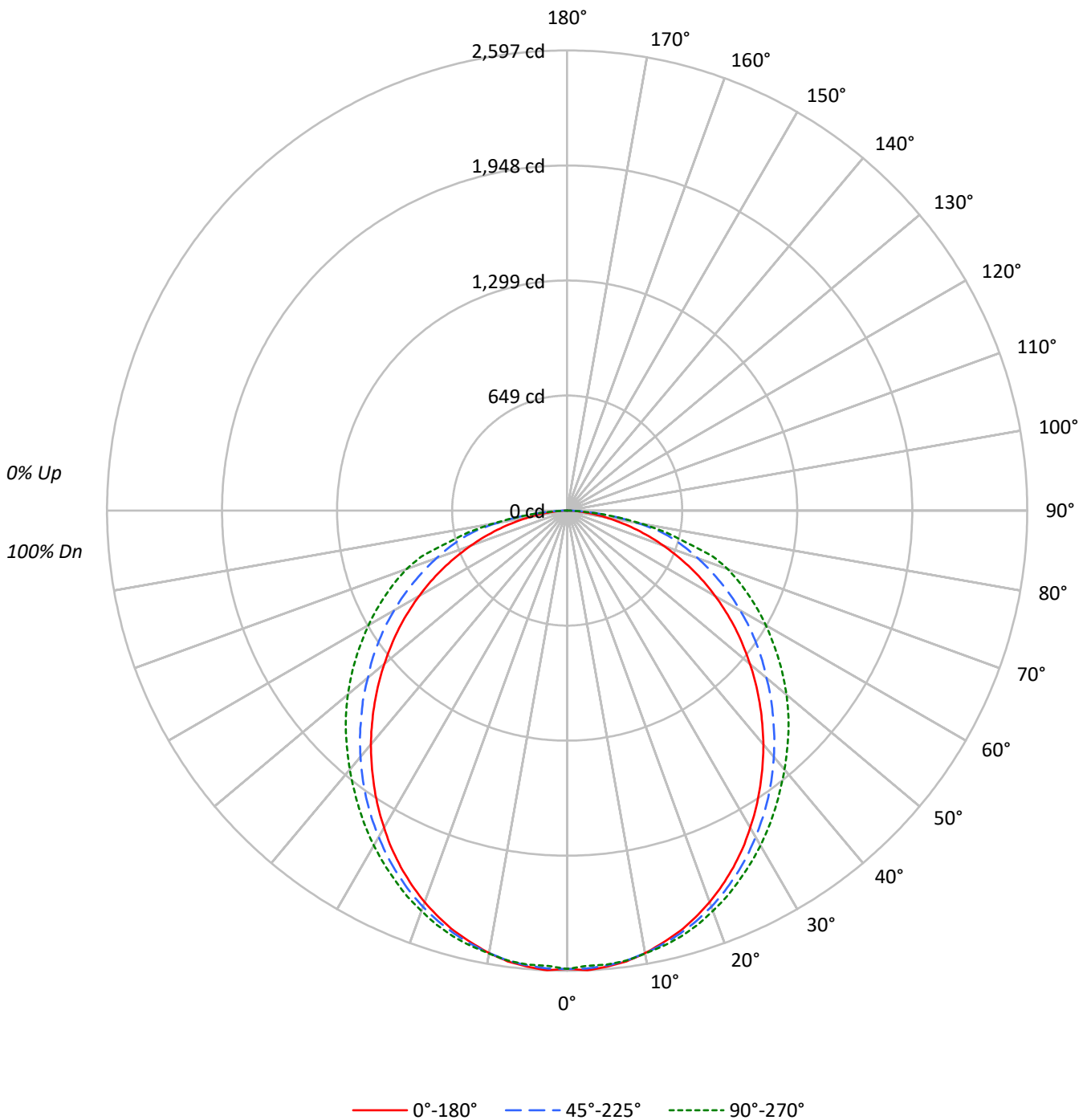
Input Watts (W): 56.079
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3480	3480	3480
5°	3490	3480	3473
10°	3465	3465	3468
15°	3424	3441	3466
20°	3367	3407	3443
25°	3297	3360	3416
30°	3211	3305	3391
35°	3121	3249	3366
40°	3027	3187	3351
45°	2924	3126	3361
50°	2821	3074	3381
55°	2717	3054	3415
60°	2594	3035	3483
65°	2458	3037	3599
70°	2273	3087	3792
75°	2033	3227	3607
80°	1701	3089	3305
85°	1286	2376	2260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	3.3
10°-20°	695.6	9.4
20°-30°	1039.9	14.1
30°-40°	1233.7	16.7
40°-50°	1269.8	17.2
50°-60°	1164.9	15.8
60°-70°	941.8	12.8
70°-80°	611.3	8.3
80°-90°	168.5	2.3
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°	1980.0	26.9
0°-40°	3213.7	43.6
0°-60°	5648.3	76.6
0°-90°	7370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2586	2586	2586	2586	2586	
5°	2584	2566	2576	2574	2571	245
15°	2458	2448	2470	2480	2488	692
25°	2221	2223	2264	2284	2301	1022
35°	1900	1915	1978	2021	2049	1188
45°	1537	1562	1643	1721	1766	1186
55°	1158	1194	1302	1408	1456	1035
65°	772	818	954	1080	1130	763
75°	391	464	621	694	694	416
85°	83	141	154	149	146	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2586.5	2586.5	2586.5	2586.5	2586.5
2.5°	2596.6	2576.4	2586.5	2584.0	2571.3
5°	2584.0	2566.3	2576.4	2573.9	2571.3
7.5°	2566.3	2548.6	2561.3	2558.7	2561.3
10°	2536.0	2520.9	2536.0	2538.5	2538.5
12.5°	2498.2	2485.6	2505.7	2510.8	2515.8
15°	2457.8	2447.7	2470.4	2480.5	2488.1
17.5°	2407.3	2399.8	2427.5	2440.1	2450.2
20°	2351.8	2349.3	2379.6	2392.2	2404.8
22.5°	2288.7	2288.7	2324.1	2339.2	2356.9
25°	2220.6	2223.1	2263.5	2283.7	2301.3
27.5°	2147.4	2149.9	2197.9	2223.1	2243.3
30°	2066.7	2076.8	2127.2	2160.0	2182.7
32.5°	1985.9	1998.5	2054.0	2091.9	2117.1
35°	1900.1	1915.3	1978.3	2021.2	2049.0
37.5°	1811.8	1829.5	1897.6	1945.5	1978.3
40°	1723.5	1743.7	1814.3	1869.8	1907.7
42.5°	1630.1	1652.8	1731.1	1796.7	1837.0
45°	1536.8	1562.0	1642.7	1721.0	1766.4
47.5°	1443.4	1473.7	1559.5	1645.3	1693.2
50°	1347.5	1377.8	1468.6	1567.0	1615.0
52.5°	1251.6	1286.9	1387.9	1488.8	1536.8
55°	1158.2	1193.6	1302.1	1408.1	1456.0
57.5°	1062.4	1097.7	1216.3	1327.3	1375.3
60°	963.9	1004.3	1128.0	1241.5	1294.5
62.5°	868.1	910.9	1042.2	1163.3	1213.8
65°	772.2	817.6	953.8	1080.0	1130.5
67.5°	673.7	726.7	868.1	996.7	1049.7
70°	577.9	635.9	784.8	913.5	963.9
72.5°	484.5	547.6	701.5	832.7	863.0
75°	391.1	464.3	620.8	693.9	693.9
77.5°	302.8	383.6	529.9	557.7	572.8
80°	219.5	307.9	398.7	431.5	426.5
82.5°	146.4	234.7	285.1	285.1	277.6
85°	83.3	141.3	153.9	148.9	146.4
87.5°	35.3	53.0	47.9	37.9	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)