

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: P276550

Luminaire Tested: **24CZ2-75HE-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-S-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7811.8 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

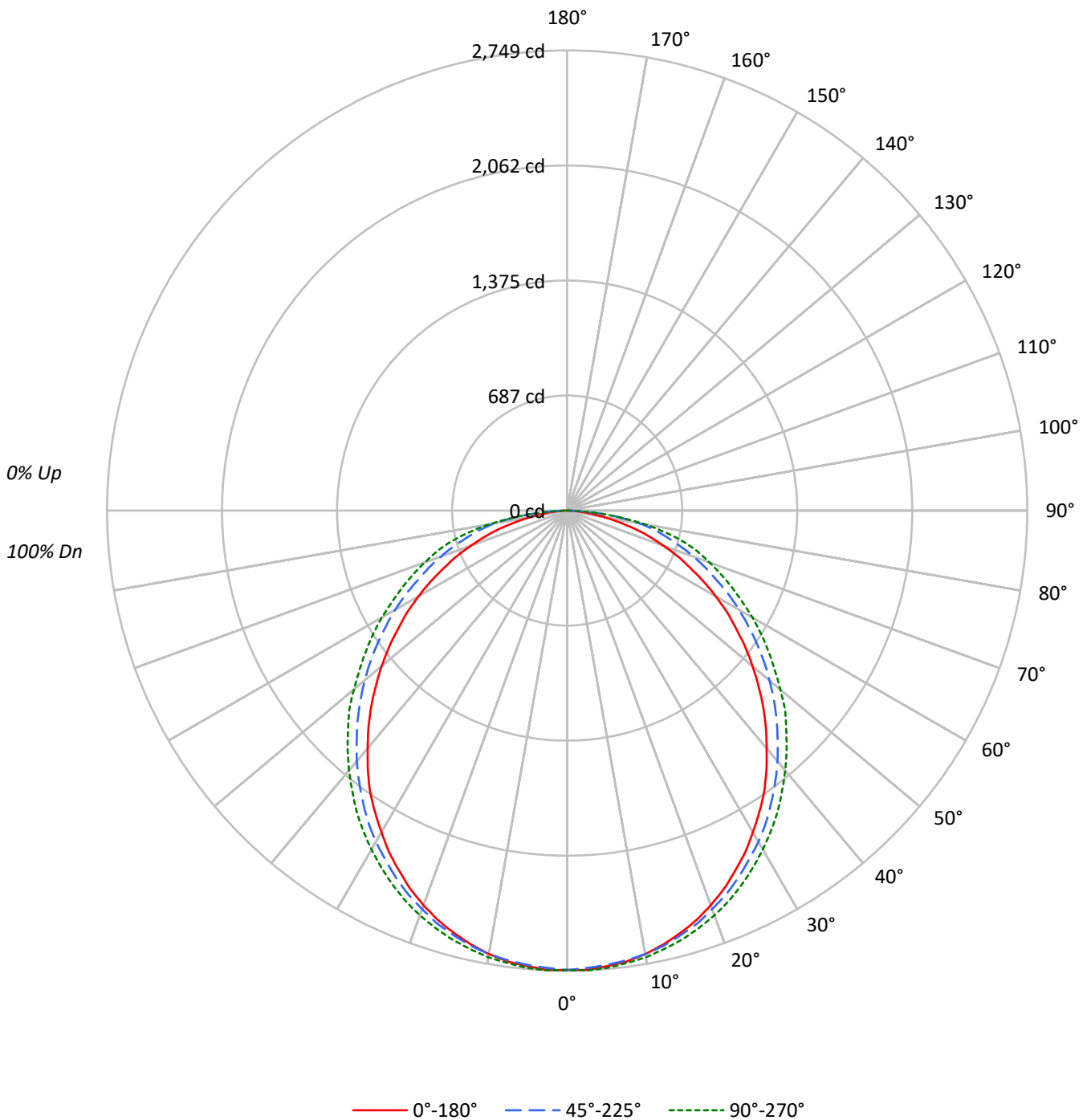
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3692	3692	3692
5°	3690	3680	3703
10°	3675	3675	3702
15°	3640	3657	3695
20°	3592	3627	3684
25°	3525	3592	3662
30°	3446	3551	3631
35°	3370	3493	3603
40°	3256	3434	3561
45°	3149	3366	3522
50°	3028	3303	3480
55°	2893	3242	3446
60°	2758	3192	3439
65°	2583	3136	3460
70°	2391	3153	3553
75°	2141	3212	3754
80°	1730	3403	3672
85°	1303	2987	2912



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	3.3
10°-20°	742.4	9.5
20°-30°	1115.9	14.3
30°-40°	1329.3	17.0
40°-50°	1360.4	17.4
50°-60°	1224.8	15.7
60°-70°	961.9	12.3
70°-80°	624.3	8.0
80°-90°	193.1	2.5
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°	2118.1	27.1
0°-40°	3447.4	44.1
0°-60°	6032.6	77.2
0°-90°	7811.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7811.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2744	2744	2744	2744	2744	
5°	2732	2737	2724	2739	2742	260
15°	2613	2620	2625	2648	2652	737
25°	2375	2394	2419	2459	2466	1094
35°	2052	2077	2126	2179	2194	1280
45°	1655	1695	1769	1836	1851	1276
55°	1233	1288	1382	1454	1469	1106
65°	811	873	985	1067	1087	808
75°	412	491	618	702	722	436
85°	84	156	194	189	189	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2744.3	2744.3	2744.3	2744.3	2744.3
2.5°	2746.8	2746.8	2734.4	2746.8	2749.3
5°	2731.9	2736.9	2724.5	2739.4	2741.9
7.5°	2717.0	2717.0	2709.6	2724.5	2727.0
10°	2689.7	2692.2	2689.7	2707.1	2709.6
12.5°	2655.0	2660.0	2662.5	2679.8	2682.3
15°	2612.8	2620.3	2625.2	2647.6	2652.5
17.5°	2565.7	2573.1	2585.5	2610.3	2615.3
20°	2508.6	2518.5	2533.4	2565.7	2573.1
22.5°	2446.6	2456.5	2481.3	2511.1	2523.5
25°	2374.6	2394.5	2419.3	2459.0	2466.4
27.5°	2302.7	2320.0	2352.3	2394.5	2404.4
30°	2218.3	2245.6	2285.3	2327.5	2337.4
32.5°	2136.4	2163.7	2210.9	2255.5	2267.9
35°	2052.0	2076.9	2126.5	2178.6	2193.5
37.5°	1955.3	1987.5	2042.1	2094.2	2109.1
40°	1853.5	1893.2	1955.3	2009.9	2027.2
42.5°	1756.8	1799.0	1861.0	1920.5	1940.4
45°	1655.0	1694.7	1769.2	1836.2	1851.1
47.5°	1550.8	1595.5	1674.9	1741.9	1766.7
50°	1446.6	1493.8	1578.1	1647.6	1662.5
52.5°	1342.4	1392.0	1481.3	1555.8	1563.2
55°	1233.2	1287.8	1382.1	1454.1	1468.9
57.5°	1134.0	1181.1	1282.8	1357.3	1374.6
60°	1024.8	1076.9	1186.1	1255.5	1277.9
62.5°	920.6	975.2	1089.3	1158.8	1178.6
65°	811.4	873.4	985.1	1067.0	1086.8
67.5°	717.1	776.7	895.8	975.2	995.0
70°	607.9	674.9	801.5	883.3	903.2
72.5°	513.6	583.1	709.7	789.1	818.8
75°	411.9	491.3	617.8	702.2	722.1
77.5°	312.6	404.5	533.5	598.0	598.0
80°	223.3	320.1	439.2	469.0	473.9
82.5°	146.4	240.7	325.1	322.6	322.6
85°	84.4	156.3	193.5	188.6	188.6
87.5°	32.3	64.5	69.5	69.5	67.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)