

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: P276549

Luminaire Tested: **24CZ2-75HE-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276549
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7791.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

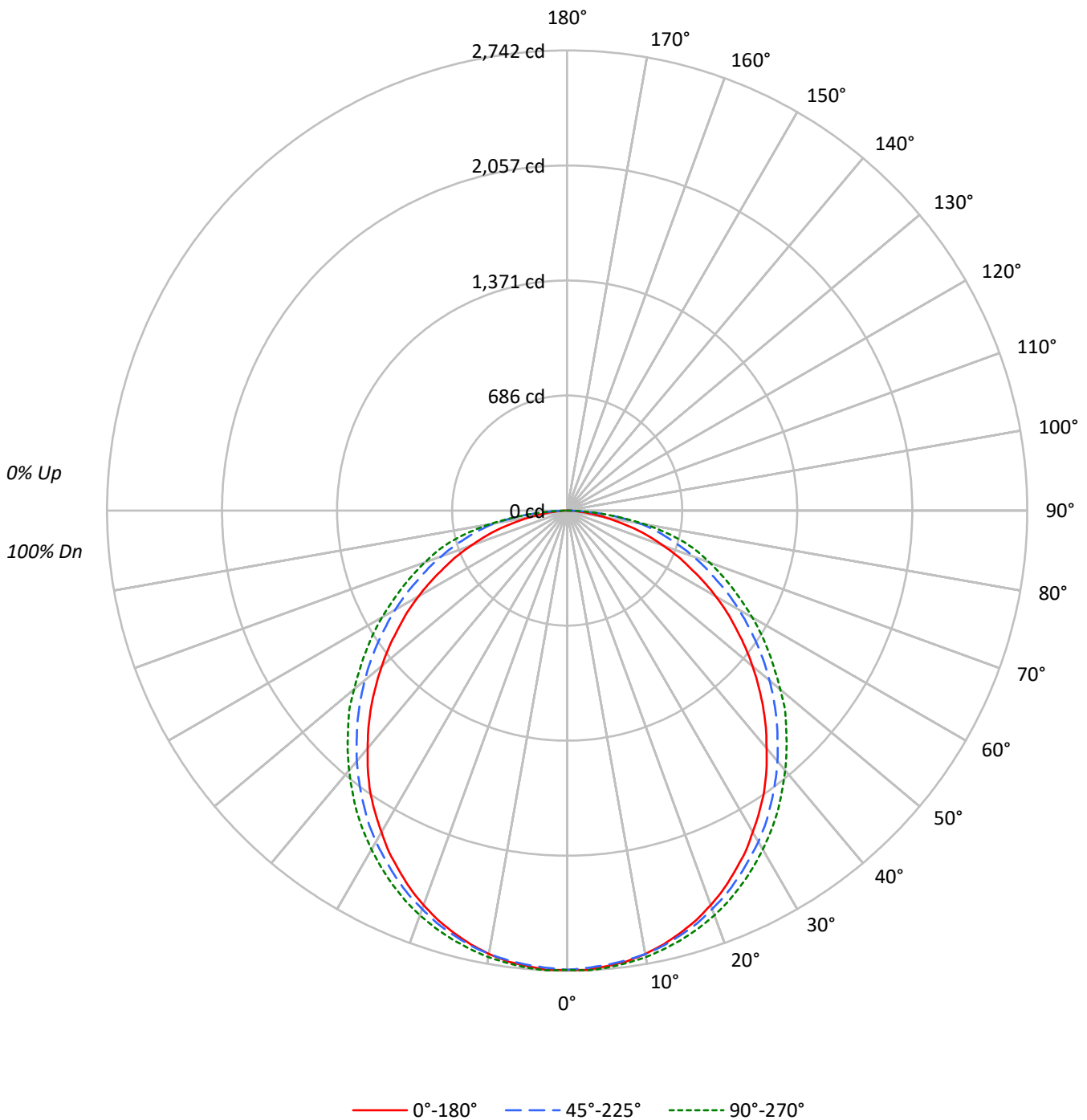
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3683	3683	3683
5°	3680	3670	3693
10°	3665	3665	3692
15°	3630	3647	3685
20°	3582	3618	3675
25°	3516	3582	3652
30°	3437	3541	3622
35°	3362	3483	3593
40°	3247	3425	3551
45°	3141	3358	3513
50°	3020	3295	3471
55°	2885	3233	3437
60°	2750	3183	3430
65°	2576	3128	3451
70°	2385	3144	3544
75°	2136	3203	3743
80°	1726	3394	3663
85°	1298	2979	2904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	3.3
10°-20°	740.4	9.5
20°-30°	1113.0	14.3
30°-40°	1325.7	17.0
40°-50°	1356.8	17.4
50°-60°	1221.5	15.7
60°-70°	959.3	12.3
70°-80°	622.6	8.0
80°-90°	192.5	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°	2112.5	27.1
0°-40°	3438.2	44.1
0°-60°	6016.5	77.2
0°-90°	7791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2737	2737	2737	2737	2737	
5°	2725	2730	2717	2732	2734	259
15°	2606	2613	2618	2640	2645	735
25°	2368	2388	2413	2452	2460	1091
35°	2047	2071	2121	2173	2188	1277
45°	1651	1690	1764	1831	1846	1273
55°	1230	1284	1378	1450	1465	1103
65°	809	871	982	1064	1084	806
75°	411	490	616	700	720	435
85°	84	156	193	188	188	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2737.0	2737.0	2737.0	2737.0	2737.0
2.5°	2739.5	2739.5	2727.1	2739.5	2742.0
5°	2724.6	2729.6	2717.2	2732.1	2734.5
7.5°	2709.8	2709.8	2702.4	2717.2	2719.7
10°	2682.6	2685.0	2682.6	2699.9	2702.4
12.5°	2647.9	2652.9	2655.3	2672.7	2675.1
15°	2605.8	2613.3	2618.2	2640.5	2645.4
17.5°	2558.8	2566.3	2578.6	2603.4	2608.3
20°	2501.9	2511.8	2526.7	2558.8	2566.3
22.5°	2440.0	2449.9	2474.7	2504.4	2516.8
25°	2368.3	2388.1	2412.8	2452.4	2459.8
27.5°	2296.5	2313.8	2346.0	2388.1	2398.0
30°	2212.4	2239.6	2279.2	2321.3	2331.2
32.5°	2130.7	2157.9	2204.9	2249.5	2261.9
35°	2046.6	2071.3	2120.8	2172.8	2187.6
37.5°	1950.1	1982.2	2036.7	2088.6	2103.5
40°	1848.6	1888.2	1950.1	2004.5	2021.8
42.5°	1752.1	1794.1	1856.0	1915.4	1935.2
45°	1650.6	1690.2	1764.5	1831.3	1846.1
47.5°	1546.7	1591.2	1670.4	1737.2	1762.0
50°	1442.7	1489.8	1573.9	1643.2	1658.0
52.5°	1338.8	1388.3	1477.4	1551.6	1559.1
55°	1229.9	1284.4	1378.4	1450.2	1465.0
57.5°	1130.9	1178.0	1279.4	1353.7	1371.0
60°	1022.0	1074.0	1182.9	1252.2	1274.5
62.5°	918.1	972.6	1086.4	1155.7	1175.5
65°	809.2	871.1	982.5	1064.1	1083.9
67.5°	715.2	774.6	893.4	972.6	992.3
70°	606.3	673.1	799.3	881.0	900.8
72.5°	512.3	581.6	707.8	787.0	816.6
75°	410.8	490.0	616.2	700.3	720.1
77.5°	311.8	403.4	532.1	596.4	596.4
80°	222.7	319.2	438.0	467.7	472.7
82.5°	146.0	240.0	324.2	321.7	321.7
85°	84.1	155.9	193.0	188.1	188.1
87.5°	32.2	64.3	69.3	69.3	66.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)