

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: P260781

Luminaire Tested: **24CZ-LD5-70-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260781
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7351.0 lumens
Efficiency: N/A
Efficacy: 133.3 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

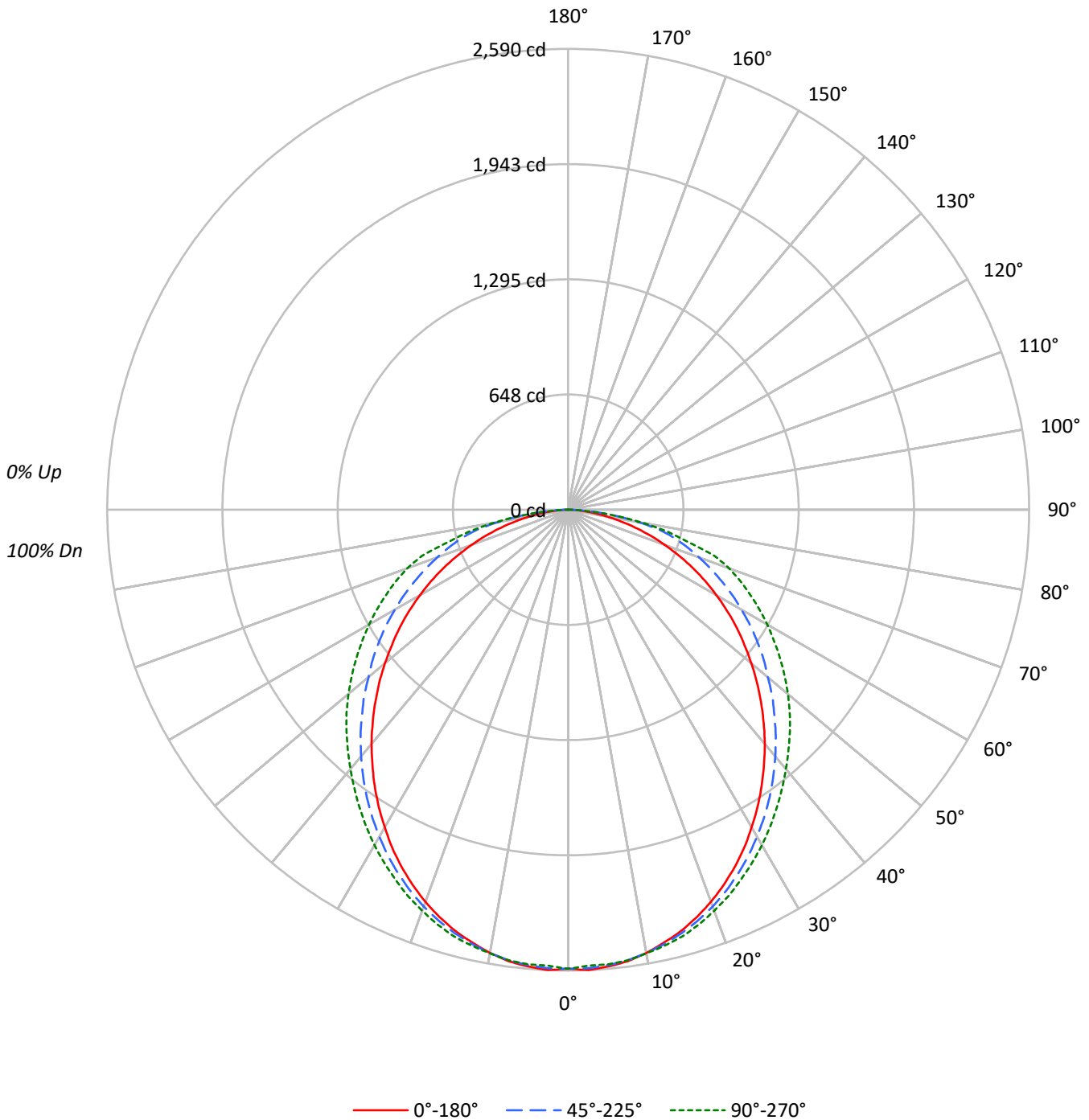
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3471	3471	3471
5°	3481	3471	3464
10°	3456	3456	3459
15°	3415	3432	3457
20°	3359	3398	3434
25°	3288	3352	3408
30°	3203	3296	3382
35°	3113	3241	3357
40°	3019	3178	3342
45°	2917	3118	3352
50°	2813	3066	3372
55°	2710	3046	3407
60°	2587	3028	3475
65°	2452	3029	3590
70°	2268	3079	3782
75°	2028	3219	3598
80°	1697	3082	3296
85°	1283	2370	2254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	3.3
10°-20°	693.8	9.4
20°-30°	1037.3	14.1
30°-40°	1230.5	16.7
40°-50°	1266.5	17.2
50°-60°	1161.9	15.8
60°-70°	939.4	12.8
70°-80°	609.7	8.3
80°-90°	168.1	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°	1974.9	26.9
0°-40°	3205.4	43.6
0°-60°	5633.8	76.6
0°-90°	7351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7351.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2580	2580	2580	2580	2580	
5°	2577	2560	2570	2567	2565	245
15°	2452	2441	2464	2474	2482	691
25°	2215	2217	2258	2278	2295	1019
35°	1895	1910	1973	2016	2044	1185
45°	1533	1558	1638	1716	1762	1183
55°	1155	1190	1299	1404	1452	1032
65°	770	816	951	1077	1128	761
75°	390	463	619	692	692	415
85°	83	141	154	148	146	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2579.8	2579.8	2579.8	2579.8	2579.8
2.5°	2589.9	2569.8	2579.8	2577.3	2564.7
5°	2577.3	2559.7	2569.8	2567.2	2564.7
7.5°	2559.7	2542.1	2554.6	2552.1	2554.6
10°	2529.5	2514.4	2529.5	2532.0	2532.0
12.5°	2491.7	2479.1	2499.3	2504.3	2509.3
15°	2451.5	2441.4	2464.0	2474.1	2481.7
17.5°	2401.1	2393.6	2421.3	2433.8	2443.9
20°	2345.7	2343.2	2373.4	2386.0	2398.6
22.5°	2282.8	2282.8	2318.1	2333.2	2350.8
25°	2214.9	2217.4	2257.7	2277.8	2295.4
27.5°	2141.9	2144.4	2192.2	2217.4	2237.5
30°	2061.3	2071.4	2121.7	2154.5	2177.1
32.5°	1980.8	1993.4	2048.8	2086.5	2111.7
35°	1895.2	1910.3	1973.2	2016.0	2043.7
37.5°	1807.1	1824.7	1892.7	1940.5	1973.2
40°	1719.0	1739.2	1809.6	1865.0	1902.8
42.5°	1625.9	1648.6	1726.6	1792.0	1832.3
45°	1532.8	1558.0	1638.5	1716.5	1761.8
47.5°	1439.7	1469.9	1555.4	1641.0	1688.8
50°	1344.0	1374.2	1464.8	1563.0	1610.8
52.5°	1248.4	1283.6	1384.3	1485.0	1532.8
55°	1155.3	1190.5	1298.7	1404.4	1452.2
57.5°	1059.6	1094.8	1213.1	1323.9	1371.7
60°	961.5	1001.7	1125.1	1238.3	1291.2
62.5°	865.8	908.6	1039.5	1160.3	1210.6
65°	770.2	815.5	951.4	1077.2	1127.6
67.5°	672.0	724.9	865.8	994.2	1047.0
70°	576.4	634.3	782.8	911.1	961.5
72.5°	483.2	546.2	699.7	830.6	860.8
75°	390.1	463.1	619.2	692.1	692.1
77.5°	302.0	382.6	528.5	556.2	571.3
80°	219.0	307.1	397.7	430.4	425.4
82.5°	146.0	234.1	284.4	284.4	276.9
85°	83.1	140.9	153.5	148.5	146.0
87.5°	35.2	52.9	47.8	37.8	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)