

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: P260774

Luminaire Tested: **24CZ-LD5-70-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260774
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6470.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

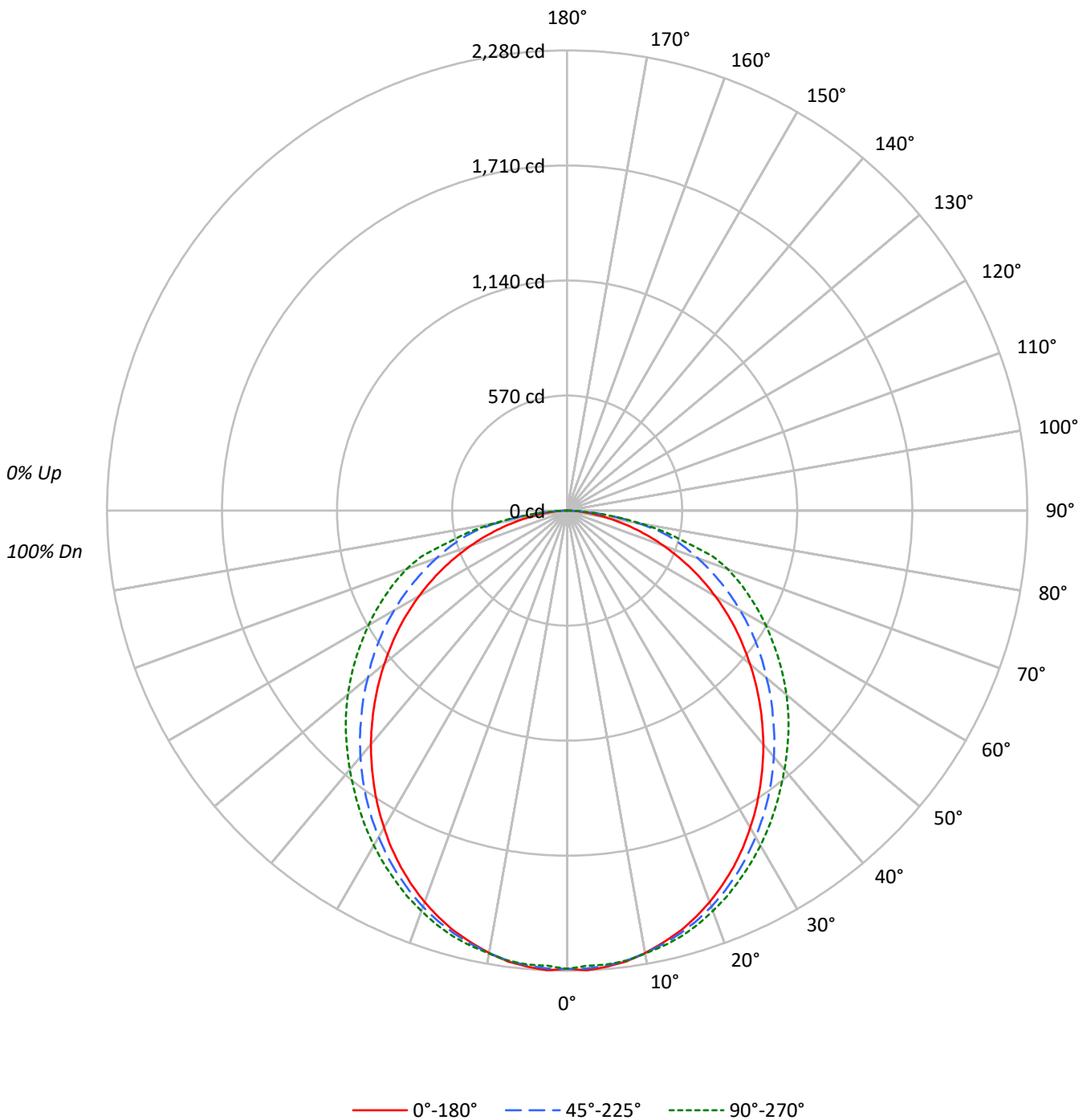
Input Watts (W): 53.661
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3055	3055	3055
5°	3064	3055	3049
10°	3042	3042	3045
15°	3006	3021	3042
20°	2956	2991	3023
25°	2894	2950	2999
30°	2819	2901	2977
35°	2740	2853	2955
40°	2657	2798	2941
45°	2567	2744	2951
50°	2476	2699	2968
55°	2385	2681	2998
60°	2277	2665	3058
65°	2158	2666	3160
70°	1996	2710	3329
75°	1785	2833	3167
80°	1493	2712	2901
85°	1129	2086	1984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	3.3
10°-20°	610.7	9.4
20°-30°	912.9	14.1
30°-40°	1083.1	16.7
40°-50°	1114.7	17.2
50°-60°	1022.6	15.8
60°-70°	826.8	12.8
70°-80°	536.6	8.3
80°-90°	148.0	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°	1738.2	26.9
0°-40°	2821.2	43.6
0°-60°	4958.6	76.6
0°-90°	6470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2271	2271	2271	2271	2271	
5°	2268	2253	2262	2260	2257	215
15°	2158	2149	2169	2178	2184	608
25°	1949	1952	1987	2005	2020	897
35°	1668	1681	1737	1774	1799	1043
45°	1349	1371	1442	1511	1551	1041
55°	1017	1048	1143	1236	1278	908
65°	678	718	837	948	992	670
75°	343	408	545	609	609	365
85°	73	124	135	131	128	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2270.6	2270.6	2270.6	2270.6	2270.6
2.5°	2279.5	2261.8	2270.6	2268.4	2257.3
5°	2268.4	2252.9	2261.8	2259.6	2257.3
7.5°	2252.9	2237.4	2248.5	2246.3	2248.5
10°	2226.3	2213.0	2226.3	2228.5	2228.5
12.5°	2193.1	2182.0	2199.7	2204.2	2208.6
15°	2157.7	2148.8	2168.7	2177.6	2184.2
17.5°	2113.4	2106.7	2131.1	2142.1	2151.0
20°	2064.6	2062.4	2089.0	2100.1	2111.1
22.5°	2009.2	2009.2	2040.2	2053.5	2069.0
25°	1949.4	1951.6	1987.1	2004.8	2020.3
27.5°	1885.2	1887.4	1929.5	1951.6	1969.4
30°	1814.3	1823.2	1867.5	1896.3	1916.2
32.5°	1743.4	1754.5	1803.2	1836.4	1858.6
35°	1668.1	1681.4	1736.8	1774.4	1798.8
37.5°	1590.6	1606.1	1665.9	1708.0	1736.8
40°	1513.0	1530.7	1592.8	1641.5	1674.7
42.5°	1431.1	1451.0	1519.7	1577.3	1612.7
45°	1349.1	1371.2	1442.1	1510.8	1550.7
47.5°	1267.1	1293.7	1369.0	1444.3	1486.4
50°	1182.9	1209.5	1289.3	1375.7	1417.8
52.5°	1098.8	1129.8	1218.4	1307.0	1349.1
55°	1016.8	1047.8	1143.1	1236.1	1278.2
57.5°	932.6	963.6	1067.8	1165.2	1207.3
60°	846.2	881.7	990.2	1089.9	1136.4
62.5°	762.0	799.7	914.9	1021.2	1065.5
65°	677.9	717.7	837.4	948.1	992.4
67.5°	591.5	638.0	762.0	875.0	921.5
70°	507.3	558.2	688.9	801.9	846.2
72.5°	425.3	480.7	615.8	731.0	757.6
75°	343.4	407.6	545.0	609.2	609.2
77.5°	265.8	336.7	465.2	489.6	502.9
80°	192.7	270.3	350.0	378.8	374.4
82.5°	128.5	206.0	250.3	250.3	243.7
85°	73.1	124.1	135.1	130.7	128.5
87.5°	31.0	46.5	42.1	33.2	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)