

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: P263429

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3658.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

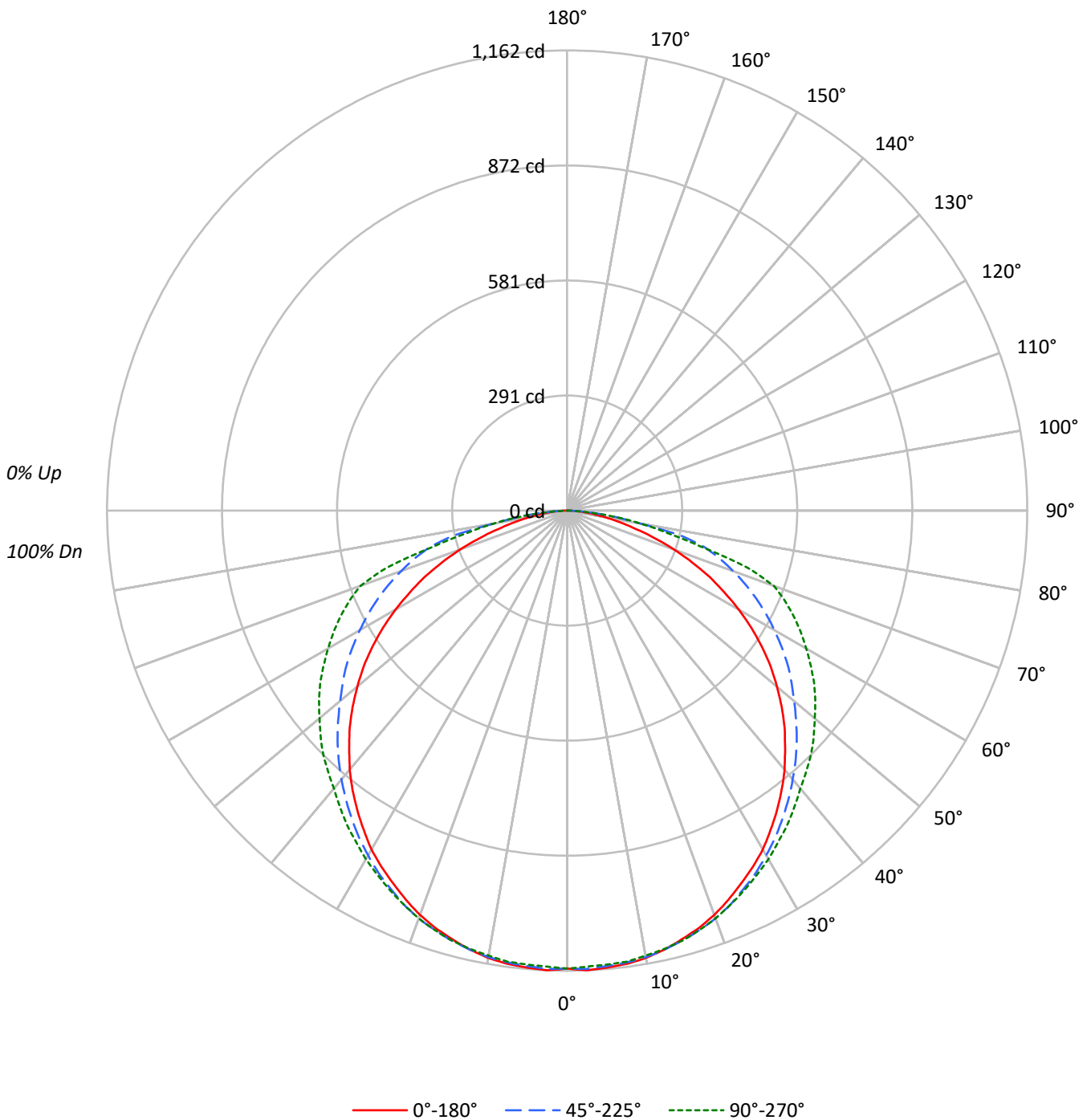
Input Watts (W): 53.568
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1556	1556	1556
5°	1564	1559	1554
10°	1567	1564	1559
15°	1561	1566	1566
20°	1556	1569	1569
25°	1543	1565	1571
30°	1535	1562	1579
35°	1518	1558	1592
40°	1500	1557	1610
45°	1478	1560	1658
50°	1448	1566	1709
55°	1410	1596	1786
60°	1347	1627	1876
65°	1263	1678	2009
70°	1130	1754	2185
75°	933	1876	1808
80°	762	1450	1464
85°	613	963	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.0
10°-20°	316.9	8.7
20°-30°	484.3	13.2
30°-40°	592.4	16.2
40°-50°	633.8	17.3
50°-60°	606.9	16.6
60°-70°	513.4	14.0
70°-80°	325.4	8.9
80°-90°	74.9	2.0
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°	911.1	24.9
0°-40°	1503.5	41.1
0°-60°	2744.2	75.0
0°-90°	3658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1158	1153	1154	1153	1151	110
15°	1120	1119	1124	1124	1124	316
25°	1039	1039	1054	1058	1058	479
35°	924	930	948	962	969	578
45°	777	790	820	854	871	598
55°	601	620	680	737	762	536
65°	397	435	527	599	631	391
75°	180	253	361	359	348	195
85°	40	60	62	57	59	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1162.0	1156.4	1158.3	1156.4	1152.6
5°	1158.3	1152.6	1154.5	1152.6	1150.7
7.5°	1154.5	1148.8	1150.7	1148.8	1148.8
10°	1146.9	1141.2	1145.0	1143.1	1141.2
12.5°	1135.6	1131.8	1135.6	1133.7	1133.7
15°	1120.5	1118.6	1124.2	1124.2	1124.2
17.5°	1105.3	1103.5	1111.0	1111.0	1111.0
20°	1086.5	1084.6	1095.9	1095.9	1095.9
22.5°	1063.8	1061.9	1077.0	1077.0	1077.0
25°	1039.2	1039.2	1054.3	1058.1	1058.1
27.5°	1014.7	1014.7	1031.7	1037.3	1037.3
30°	988.2	988.2	1005.2	1012.8	1016.5
32.5°	956.1	959.9	978.8	988.2	992.0
35°	924.0	929.6	948.5	961.7	969.3
37.5°	889.9	895.6	918.3	933.4	942.9
40°	854.0	861.6	886.2	905.1	916.4
42.5°	814.4	825.7	854.0	878.6	893.7
45°	776.6	789.8	820.0	854.0	871.1
47.5°	735.0	750.1	784.1	827.6	844.6
50°	691.6	706.7	748.2	797.4	816.3
52.5°	648.1	665.1	714.2	767.1	789.8
55°	600.9	619.7	680.2	736.9	761.5
57.5°	551.7	574.4	642.4	702.9	729.3
60°	500.7	529.1	604.6	668.9	697.2
62.5°	447.8	481.8	566.8	634.9	665.1
65°	396.8	434.6	527.2	599.0	631.1
67.5°	342.0	389.2	487.5	565.0	595.2
70°	287.2	342.0	445.9	525.3	555.5
72.5°	232.4	298.5	404.3	476.1	476.1
75°	179.5	253.2	360.9	359.0	347.7
77.5°	136.0	211.6	296.6	253.2	255.1
80°	98.3	170.1	187.1	187.1	188.9
82.5°	66.1	130.4	120.9	119.0	122.8
85°	39.7	60.5	62.4	56.7	58.6
87.5°	18.9	20.8	17.0	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)