

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: P263271

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263271
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-LD5-55-SQP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3732.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

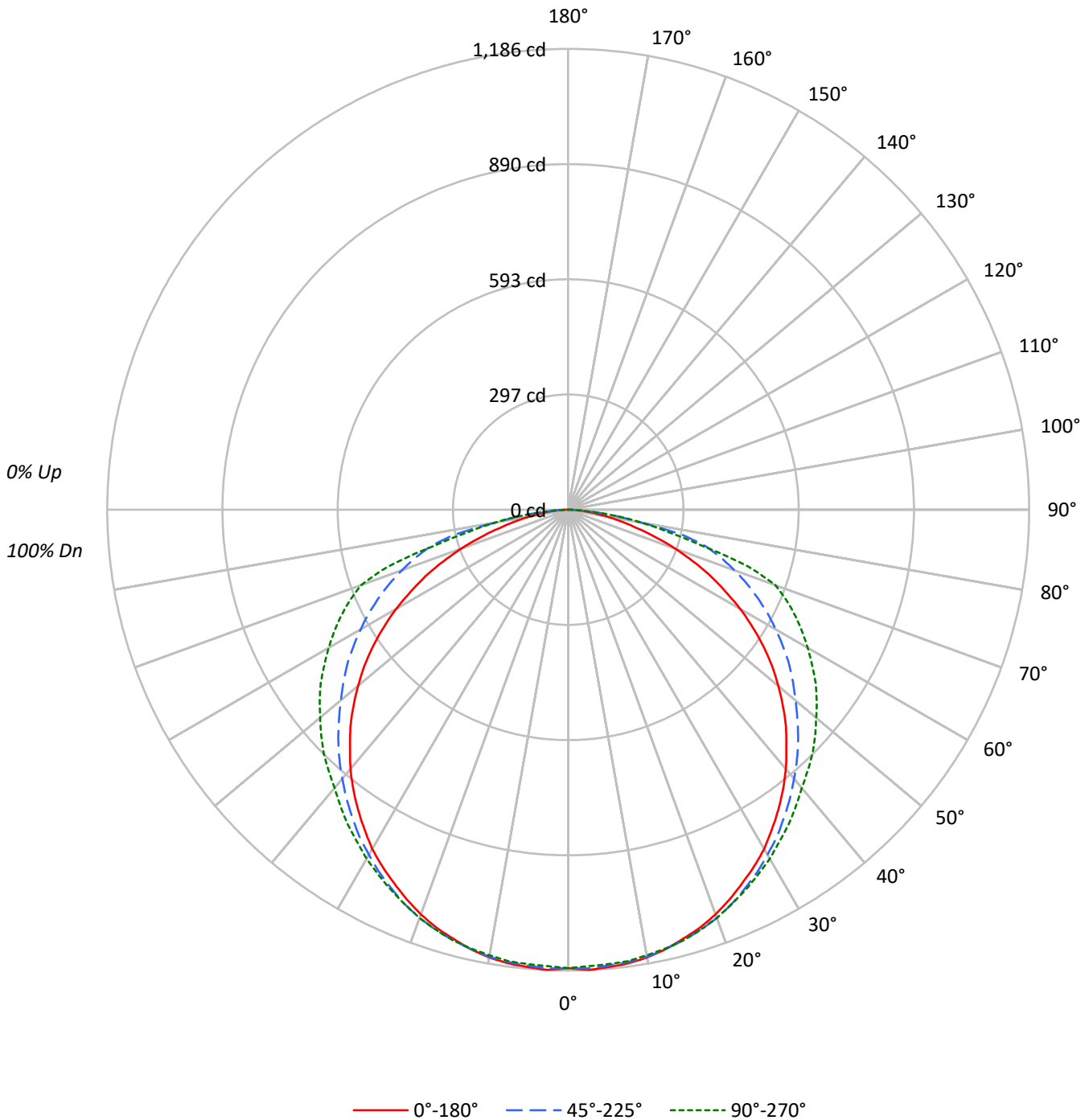
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1587	1587	1587
5°	1596	1591	1586
10°	1599	1596	1591
15°	1592	1598	1598
20°	1587	1601	1601
25°	1574	1597	1603
30°	1566	1593	1611
35°	1548	1589	1624
40°	1530	1588	1642
45°	1508	1592	1691
50°	1477	1598	1743
55°	1438	1628	1822
60°	1375	1660	1914
65°	1289	1712	2050
70°	1153	1790	2229
75°	952	1914	1844
80°	776	1478	1494
85°	625	982	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.0
10°-20°	323.3	8.7
20°-30°	494.1	13.2
30°-40°	604.4	16.2
40°-50°	646.7	17.3
50°-60°	619.2	16.6
60°-70°	523.8	14.0
70°-80°	332.0	8.9
80°-90°	76.4	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°	929.5	24.9
0°-40°	1533.9	41.1
0°-60°	2799.8	75.0
0°-90°	3732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1182	1176	1178	1176	1174	112
15°	1143	1141	1147	1147	1147	323
25°	1060	1060	1076	1080	1080	489
35°	943	948	968	981	989	590
45°	792	806	837	871	889	610
55°	613	632	694	752	777	547
65°	405	443	538	611	644	399
75°	183	258	368	366	355	199
85°	40	62	64	58	60	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.8	1179.8	1179.8	1179.8	1179.8
2.5°	1185.5	1179.8	1181.7	1179.8	1175.9
5°	1181.7	1175.9	1177.8	1175.9	1174.0
7.5°	1177.8	1172.0	1174.0	1172.0	1172.0
10°	1170.1	1164.3	1168.2	1166.3	1164.3
12.5°	1158.6	1154.7	1158.6	1156.6	1156.6
15°	1143.1	1141.2	1147.0	1147.0	1147.0
17.5°	1127.7	1125.8	1133.5	1133.5	1133.5
20°	1108.4	1106.5	1118.1	1118.1	1118.1
22.5°	1085.3	1083.4	1098.8	1098.8	1098.8
25°	1060.2	1060.2	1075.7	1079.5	1079.5
27.5°	1035.2	1035.2	1052.5	1058.3	1058.3
30°	1008.2	1008.2	1025.5	1033.2	1037.1
32.5°	975.4	979.3	998.6	1008.2	1012.0
35°	942.6	948.4	967.7	981.2	988.9
37.5°	907.9	913.7	936.9	952.3	961.9
40°	871.3	879.0	904.1	923.4	934.9
42.5°	830.8	842.4	871.3	896.4	911.8
45°	792.3	805.8	836.6	871.3	888.7
47.5°	749.9	765.3	800.0	844.3	861.7
50°	705.5	721.0	763.4	813.5	832.8
52.5°	661.2	678.6	728.7	782.6	805.8
55°	613.0	632.3	694.0	751.8	776.9
57.5°	562.9	586.0	655.4	717.1	744.1
60°	510.8	539.8	616.9	682.4	711.3
62.5°	456.9	491.6	578.3	647.7	678.6
65°	404.8	443.4	537.8	611.1	643.9
67.5°	348.9	397.1	497.3	576.4	607.2
70°	293.0	348.9	454.9	535.9	566.7
72.5°	237.1	304.6	412.5	485.8	485.8
75°	183.1	258.3	368.2	366.3	354.7
77.5°	138.8	215.9	302.6	258.3	260.2
80°	100.2	173.5	190.8	190.8	192.8
82.5°	67.5	133.0	123.4	121.4	125.3
85°	40.5	61.7	63.6	57.8	59.8
87.5°	19.3	21.2	17.3	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)