

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: P263308

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263308
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-LD5-75-SQP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5138.0 lumens
Efficiency: N/A
Efficacy: 85.9 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

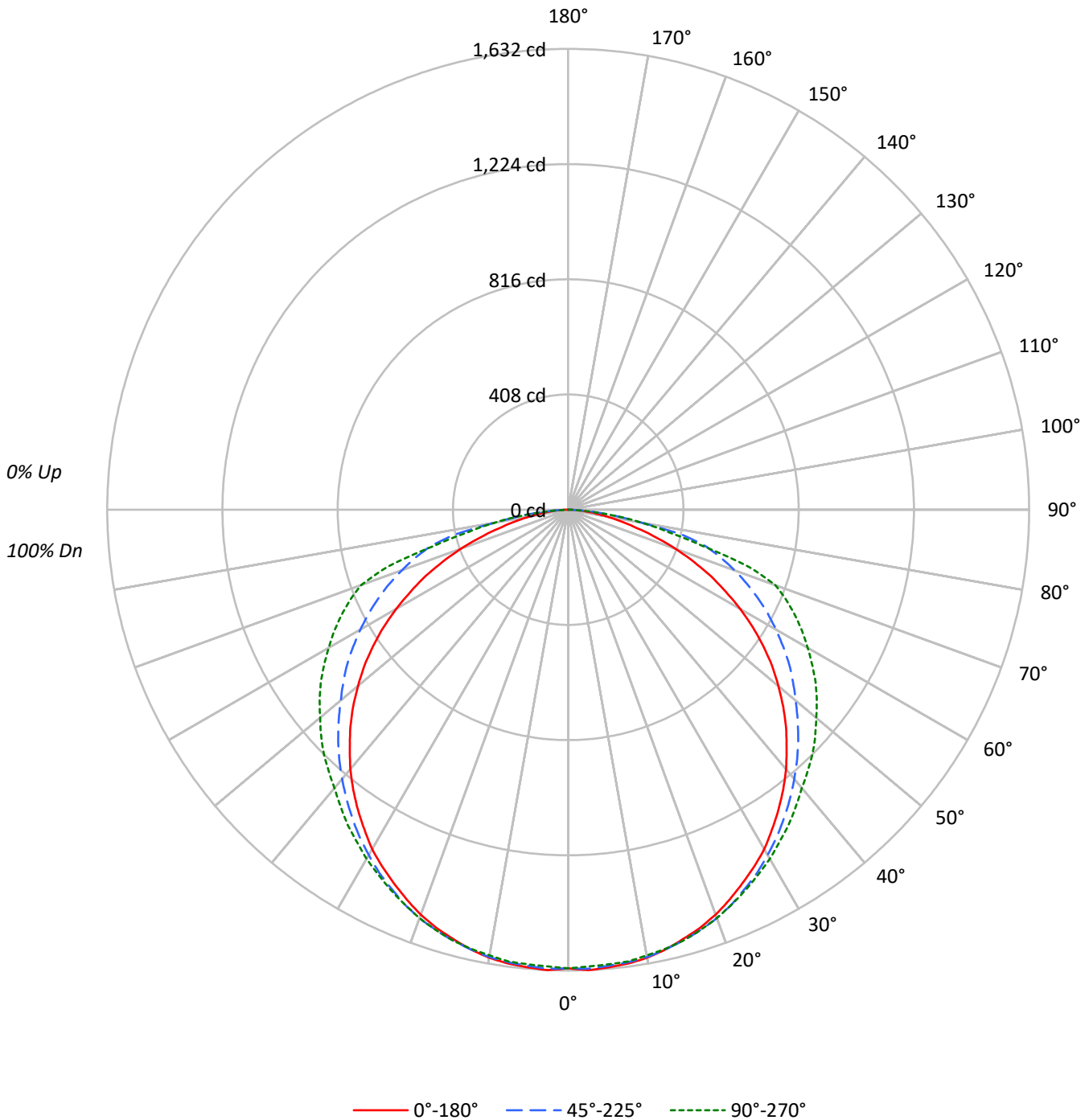
Input Watts (W): 59.799
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2185	2185	2185
5°	2197	2190	2183
10°	2201	2197	2190
15°	2192	2200	2200
20°	2185	2204	2204
25°	2167	2199	2206
30°	2156	2194	2218
35°	2132	2188	2236
40°	2107	2186	2261
45°	2076	2192	2328
50°	2033	2200	2400
55°	1980	2241	2509
60°	1893	2285	2635
65°	1774	2358	2822
70°	1587	2464	3070
75°	1311	2635	2538
80°	1069	2035	2056
85°	860	1352	1271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	3.0
10°-20°	445.1	8.7
20°-30°	680.3	13.2
30°-40°	832.0	16.2
40°-50°	890.3	17.3
50°-60°	852.5	16.6
60°-70°	721.2	14.0
70°-80°	457.1	8.9
80°-90°	105.2	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°	1279.7	24.9
0°-40°	2111.7	41.1
0°-60°	3854.5	75.0
0°-90°	5138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1627	1619	1622	1619	1616	155
15°	1574	1571	1579	1579	1579	445
25°	1460	1460	1481	1486	1486	673
35°	1298	1306	1332	1351	1362	812
45°	1091	1109	1152	1200	1224	840
55°	844	870	955	1035	1070	753
65°	557	610	740	841	886	549
75°	252	356	507	504	488	274
85°	56	85	88	80	82	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1624.2	1624.2	1624.2	1624.2	1624.2
2.5°	1632.2	1624.2	1626.9	1624.2	1618.9
5°	1626.9	1618.9	1621.6	1618.9	1616.3
7.5°	1621.6	1613.6	1616.3	1613.6	1613.6
10°	1610.9	1603.0	1608.3	1605.6	1603.0
12.5°	1595.0	1589.7	1595.0	1592.4	1592.4
15°	1573.8	1571.1	1579.1	1579.1	1579.1
17.5°	1552.6	1549.9	1560.5	1560.5	1560.5
20°	1526.0	1523.4	1539.3	1539.3	1539.3
22.5°	1494.2	1491.5	1512.8	1512.8	1512.8
25°	1459.7	1459.7	1480.9	1486.2	1486.2
27.5°	1425.2	1425.2	1449.1	1457.0	1457.0
30°	1388.0	1388.0	1411.9	1422.5	1427.8
32.5°	1342.9	1348.2	1374.7	1388.0	1393.3
35°	1297.8	1305.7	1332.3	1350.9	1361.5
37.5°	1250.0	1258.0	1289.8	1311.1	1324.3
40°	1199.6	1210.2	1244.7	1271.2	1287.2
42.5°	1143.9	1159.8	1199.6	1234.1	1255.3
45°	1090.8	1109.4	1151.8	1199.6	1223.5
47.5°	1032.4	1053.6	1101.4	1162.4	1186.3
50°	971.3	992.6	1051.0	1120.0	1146.5
52.5°	910.3	934.2	1003.2	1077.5	1109.4
55°	844.0	870.5	955.4	1035.0	1069.5
57.5°	775.0	806.8	902.3	987.3	1024.4
60°	703.3	743.1	849.3	939.5	979.3
62.5°	629.0	676.8	796.2	891.7	934.2
65°	557.3	610.4	740.5	841.3	886.4
67.5°	480.4	546.7	684.7	793.5	836.0
70°	403.4	480.4	626.3	737.8	780.3
72.5°	326.4	419.3	567.9	668.8	668.8
75°	252.1	355.6	506.9	504.3	488.3
77.5°	191.1	297.2	416.7	355.6	358.3
80°	138.0	238.9	262.7	262.7	265.4
82.5°	92.9	183.1	169.9	167.2	172.5
85°	55.7	84.9	87.6	79.6	82.3
87.5°	26.5	29.2	23.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)