

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: P263292

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263292
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-LD5-65-SQP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4511.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

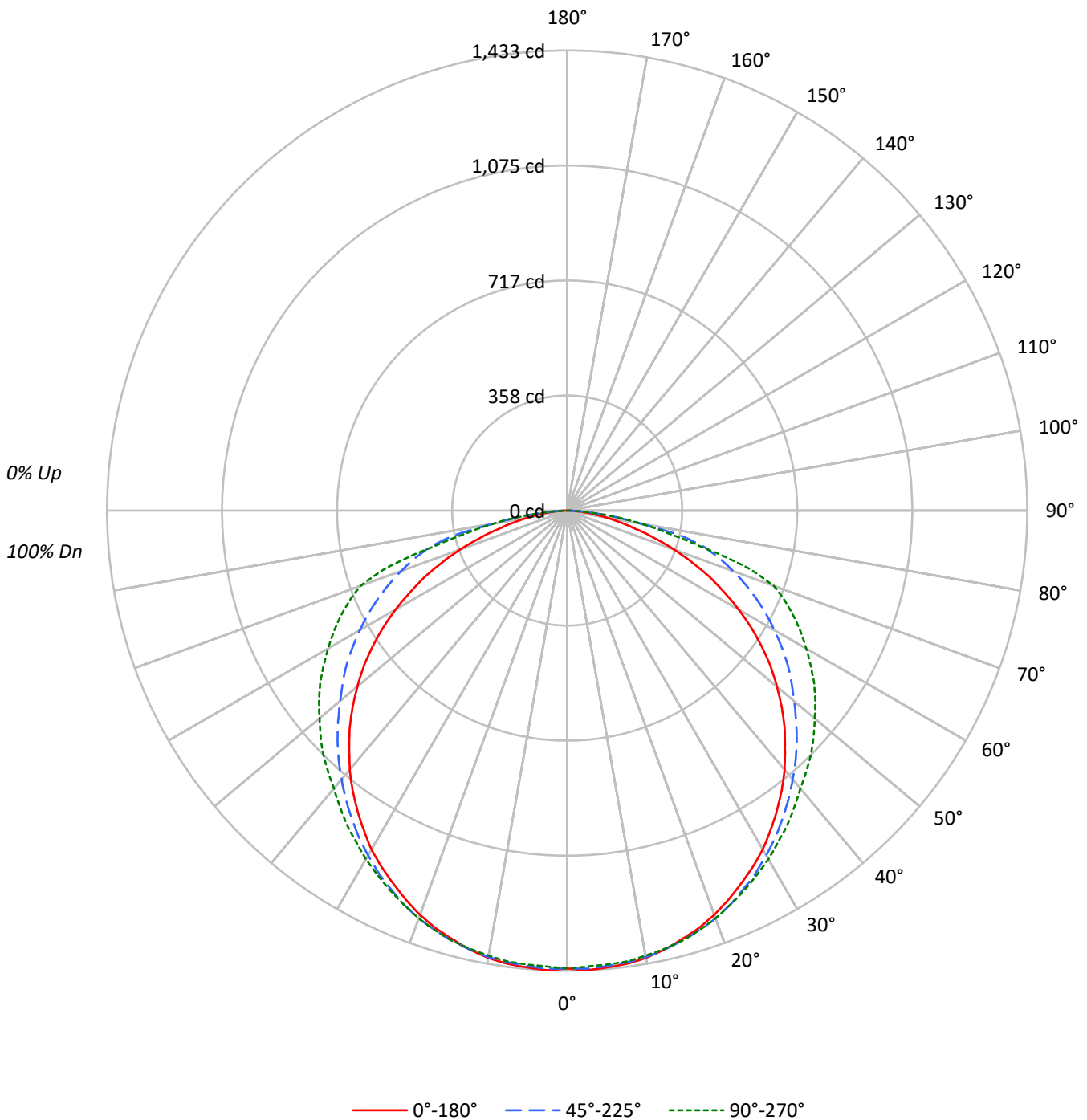
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	1919	1919	1919
5°	1929	1923	1917
10°	1932	1929	1923
15°	1925	1931	1931
20°	1918	1935	1935
25°	1902	1930	1937
30°	1893	1926	1948
35°	1872	1921	1963
40°	1850	1919	1985
45°	1822	1924	2044
50°	1785	1931	2107
55°	1738	1968	2203
60°	1662	2006	2314
65°	1558	2070	2478
70°	1393	2163	2695
75°	1151	2313	2229
80°	939	1788	1805
85°	755	1187	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.0
10°-20°	390.8	8.7
20°-30°	597.3	13.2
30°-40°	730.5	16.2
40°-50°	781.6	17.3
50°-60°	748.5	16.6
60°-70°	633.2	14.0
70°-80°	401.3	8.9
80°-90°	92.3	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°	1123.5	24.9
0°-40°	1854.0	41.1
0°-60°	3384.1	75.0
0°-90°	4511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1428	1421	1424	1421	1419	136
15°	1382	1379	1386	1386	1386	390
25°	1282	1282	1300	1305	1305	591
35°	1139	1146	1170	1186	1195	713
45°	958	974	1011	1053	1074	738
55°	741	764	839	909	939	661
65°	489	536	650	739	778	482
75°	221	312	445	443	429	241
85°	49	75	77	70	72	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.0	1426.0	1426.0	1426.0	1426.0
2.5°	1433.0	1426.0	1428.3	1426.0	1421.4
5°	1428.3	1421.4	1423.7	1421.4	1419.0
7.5°	1423.7	1416.7	1419.0	1416.7	1416.7
10°	1414.4	1407.4	1412.0	1409.7	1407.4
12.5°	1400.4	1395.7	1400.4	1398.1	1398.1
15°	1381.7	1379.4	1386.4	1386.4	1386.4
17.5°	1363.1	1360.8	1370.1	1370.1	1370.1
20°	1339.8	1337.5	1351.4	1351.4	1351.4
22.5°	1311.8	1309.5	1328.1	1328.1	1328.1
25°	1281.5	1281.5	1300.2	1304.8	1304.8
27.5°	1251.3	1251.3	1272.2	1279.2	1279.2
30°	1218.6	1218.6	1239.6	1248.9	1253.6
32.5°	1179.0	1183.7	1207.0	1218.6	1223.3
35°	1139.4	1146.4	1169.7	1186.0	1195.3
37.5°	1097.5	1104.5	1132.4	1151.1	1162.7
40°	1053.2	1062.5	1092.8	1116.1	1130.1
42.5°	1004.3	1018.2	1053.2	1083.5	1102.1
45°	957.7	974.0	1011.3	1053.2	1074.2
47.5°	906.4	925.0	967.0	1020.6	1041.5
50°	852.8	871.5	922.7	983.3	1006.6
52.5°	799.2	820.2	880.8	946.0	974.0
55°	741.0	764.3	838.8	908.7	939.0
57.5°	680.4	708.3	792.2	866.8	899.4
60°	617.5	652.4	745.6	824.8	859.8
62.5°	552.2	594.2	699.0	782.9	820.2
65°	489.3	535.9	650.1	738.6	778.2
67.5°	421.7	480.0	601.2	696.7	734.0
70°	354.2	421.7	549.9	647.8	685.0
72.5°	286.6	368.2	498.6	587.2	587.2
75°	221.4	312.2	445.0	442.7	428.7
77.5°	167.8	261.0	365.8	312.2	314.6
80°	121.2	209.7	230.7	230.7	233.0
82.5°	81.6	160.8	149.1	146.8	151.5
85°	48.9	74.6	76.9	69.9	72.2
87.5°	23.3	25.6	21.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)