

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: P263289

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263289
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-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: 4396.0 lumens
Efficiency: N/A
Efficacy: 88.2 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

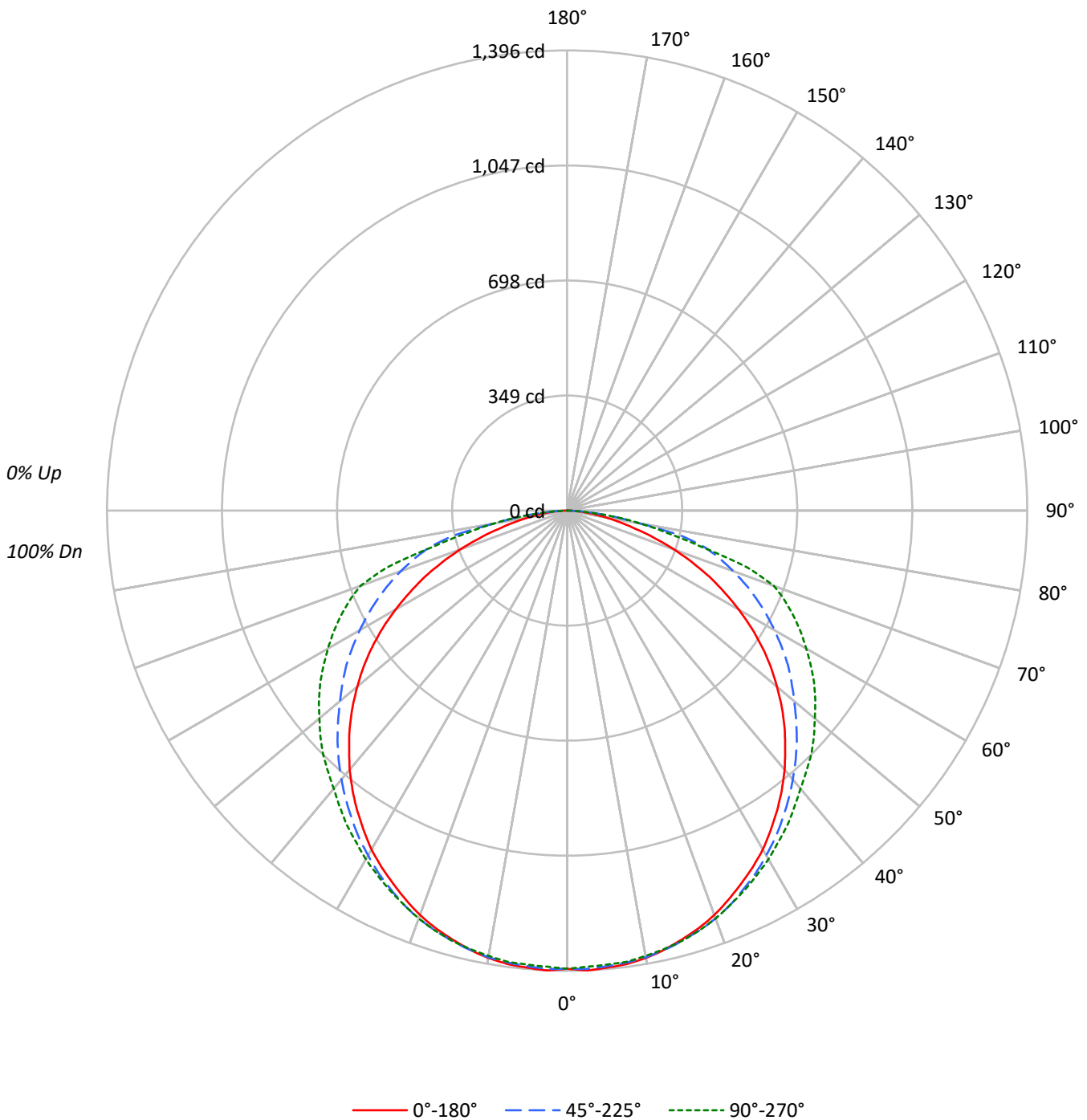
Input Watts (W): 49.848
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1870	1870	1870
5°	1880	1874	1868
10°	1883	1880	1874
15°	1876	1882	1882
20°	1869	1886	1886
25°	1854	1881	1888
30°	1845	1877	1898
35°	1824	1872	1913
40°	1803	1871	1934
45°	1776	1875	1992
50°	1740	1882	2053
55°	1694	1917	2147
60°	1619	1955	2255
65°	1518	2017	2415
70°	1358	2108	2626
75°	1121	2255	2172
80°	915	1742	1760
85°	736	1156	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	3.0
10°-20°	380.8	8.7
20°-30°	582.1	13.2
30°-40°	711.9	16.2
40°-50°	761.7	17.3
50°-60°	729.4	16.6
60°-70°	617.0	14.0
70°-80°	391.1	8.9
80°-90°	90.0	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°	1094.9	24.9
0°-40°	1806.8	41.1
0°-60°	3297.9	75.0
0°-90°	4396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1392	1385	1387	1385	1383	132
15°	1346	1344	1351	1351	1351	380
25°	1249	1249	1267	1272	1272	576
35°	1110	1117	1140	1156	1165	695
45°	933	949	986	1026	1047	719
55°	722	745	817	886	915	644
65°	477	522	634	720	758	470
75°	216	304	434	431	418	235
85°	48	73	75	68	70	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.7	1389.7	1389.7	1389.7	1389.7
2.5°	1396.5	1389.7	1391.9	1389.7	1385.1
5°	1391.9	1385.1	1387.4	1385.1	1382.8
7.5°	1387.4	1380.6	1382.8	1380.6	1380.6
10°	1378.3	1371.5	1376.0	1373.8	1371.5
12.5°	1364.7	1360.1	1364.7	1362.4	1362.4
15°	1346.5	1344.2	1351.1	1351.1	1351.1
17.5°	1328.3	1326.1	1335.2	1335.2	1335.2
20°	1305.6	1303.4	1317.0	1317.0	1317.0
22.5°	1278.4	1276.1	1294.3	1294.3	1294.3
25°	1248.9	1248.9	1267.0	1271.6	1271.6
27.5°	1219.4	1219.4	1239.8	1246.6	1246.6
30°	1187.6	1187.6	1208.0	1217.1	1221.6
32.5°	1149.0	1153.5	1176.2	1187.6	1192.1
35°	1110.4	1117.2	1139.9	1155.8	1164.9
37.5°	1069.5	1076.3	1103.6	1121.7	1133.1
40°	1026.3	1035.4	1065.0	1087.7	1101.3
42.5°	978.7	992.3	1026.3	1055.9	1074.0
45°	933.3	949.1	985.5	1026.3	1046.8
47.5°	883.3	901.5	942.3	994.6	1015.0
50°	831.1	849.2	899.2	958.2	980.9
52.5°	778.8	799.3	858.3	921.9	949.1
55°	722.1	744.8	817.4	885.6	915.1
57.5°	663.0	690.3	772.0	844.7	876.5
60°	601.7	635.8	726.6	803.8	837.9
62.5°	538.2	579.0	681.2	762.9	799.3
65°	476.8	522.3	633.5	719.8	758.4
67.5°	411.0	467.8	585.8	678.9	715.3
70°	345.1	411.0	535.9	631.2	667.6
72.5°	279.3	358.8	485.9	572.2	572.2
75°	215.7	304.3	433.7	431.4	417.8
77.5°	163.5	254.3	356.5	304.3	306.5
80°	118.1	204.4	224.8	224.8	227.1
82.5°	79.5	156.7	145.3	143.1	147.6
85°	47.7	72.7	74.9	68.1	70.4
87.5°	22.7	25.0	20.4	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)