

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: P263107

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263107
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-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4089.0 lumens
Efficiency: N/A
Efficacy: 83.8 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

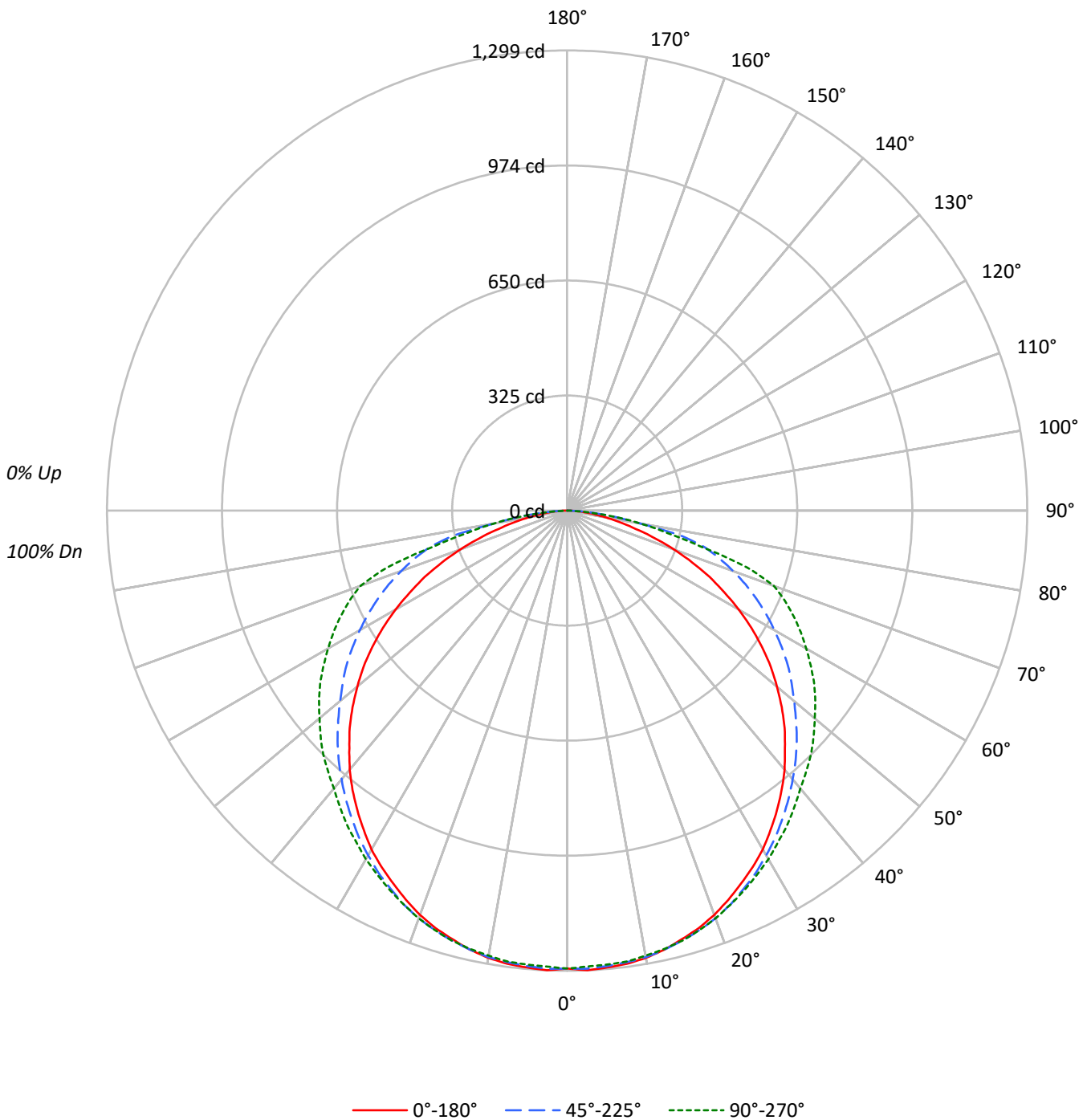
Input Watts (W): 48.820164
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1739	1739	1739
5°	1749	1743	1737
10°	1752	1749	1743
15°	1745	1751	1751
20°	1739	1754	1754
25°	1725	1750	1756
30°	1716	1746	1765
35°	1696	1742	1780
40°	1677	1740	1799
45°	1652	1744	1853
50°	1618	1751	1910
55°	1576	1784	1997
60°	1506	1819	2097
65°	1412	1876	2246
70°	1263	1961	2443
75°	1043	2097	2020
80°	851	1620	1636
85°	685	1076	1011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.0
10°-20°	354.2	8.7
20°-30°	541.4	13.2
30°-40°	662.2	16.2
40°-50°	708.5	17.3
50°-60°	678.5	16.6
60°-70°	573.9	14.0
70°-80°	363.8	8.9
80°-90°	83.7	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°	1018.4	24.9
0°-40°	1680.6	41.1
0°-60°	3067.6	75.0
0°-90°	4089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1295	1288	1290	1288	1286	123
15°	1252	1250	1257	1257	1257	354
25°	1162	1162	1179	1183	1183	536
35°	1033	1039	1060	1075	1084	646
45°	868	883	917	955	974	669
55°	672	693	760	824	851	599
65°	444	486	589	670	705	437
75°	201	283	403	401	389	218
85°	44	68	70	63	66	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1292.6	1292.6	1292.6	1292.6	1292.6
2.5°	1298.9	1292.6	1294.7	1292.6	1288.4
5°	1294.7	1288.4	1290.5	1288.4	1286.3
7.5°	1290.5	1284.2	1286.3	1284.2	1284.2
10°	1282.0	1275.7	1279.9	1277.8	1275.7
12.5°	1269.4	1265.2	1269.4	1267.3	1267.3
15°	1252.5	1250.4	1256.7	1256.7	1256.7
17.5°	1235.6	1233.5	1241.9	1241.9	1241.9
20°	1214.5	1212.3	1225.0	1225.0	1225.0
22.5°	1189.1	1187.0	1203.9	1203.9	1203.9
25°	1161.7	1161.7	1178.6	1182.8	1182.8
27.5°	1134.2	1134.2	1153.2	1159.5	1159.5
30°	1104.6	1104.6	1123.6	1132.1	1136.3
32.5°	1068.7	1073.0	1094.1	1104.6	1108.9
35°	1032.8	1039.2	1060.3	1075.1	1083.5
37.5°	994.8	1001.1	1026.5	1043.4	1053.9
40°	954.7	963.1	990.6	1011.7	1024.4
42.5°	910.3	923.0	954.7	982.1	999.0
45°	868.1	882.9	916.7	954.7	973.7
47.5°	821.6	838.5	876.5	925.1	944.1
50°	773.0	789.9	836.4	891.3	912.4
52.5°	724.5	743.5	798.4	857.5	882.9
55°	671.7	692.8	760.4	823.7	851.2
57.5°	616.7	642.1	718.1	785.7	815.3
60°	559.7	591.4	675.9	747.7	779.4
62.5°	500.6	538.6	633.6	709.7	743.5
65°	443.5	485.8	589.3	669.5	705.4
67.5°	382.3	435.1	544.9	631.5	665.3
70°	321.0	382.3	498.5	587.2	621.0
72.5°	259.8	333.7	452.0	532.3	532.3
75°	200.7	283.0	403.4	401.3	388.6
77.5°	152.1	236.6	331.6	283.0	285.1
80°	109.8	190.1	209.1	209.1	211.2
82.5°	73.9	145.7	135.2	133.1	137.3
85°	44.4	67.6	69.7	63.4	65.5
87.5°	21.1	23.2	19.0	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)