

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: P263527

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4293.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

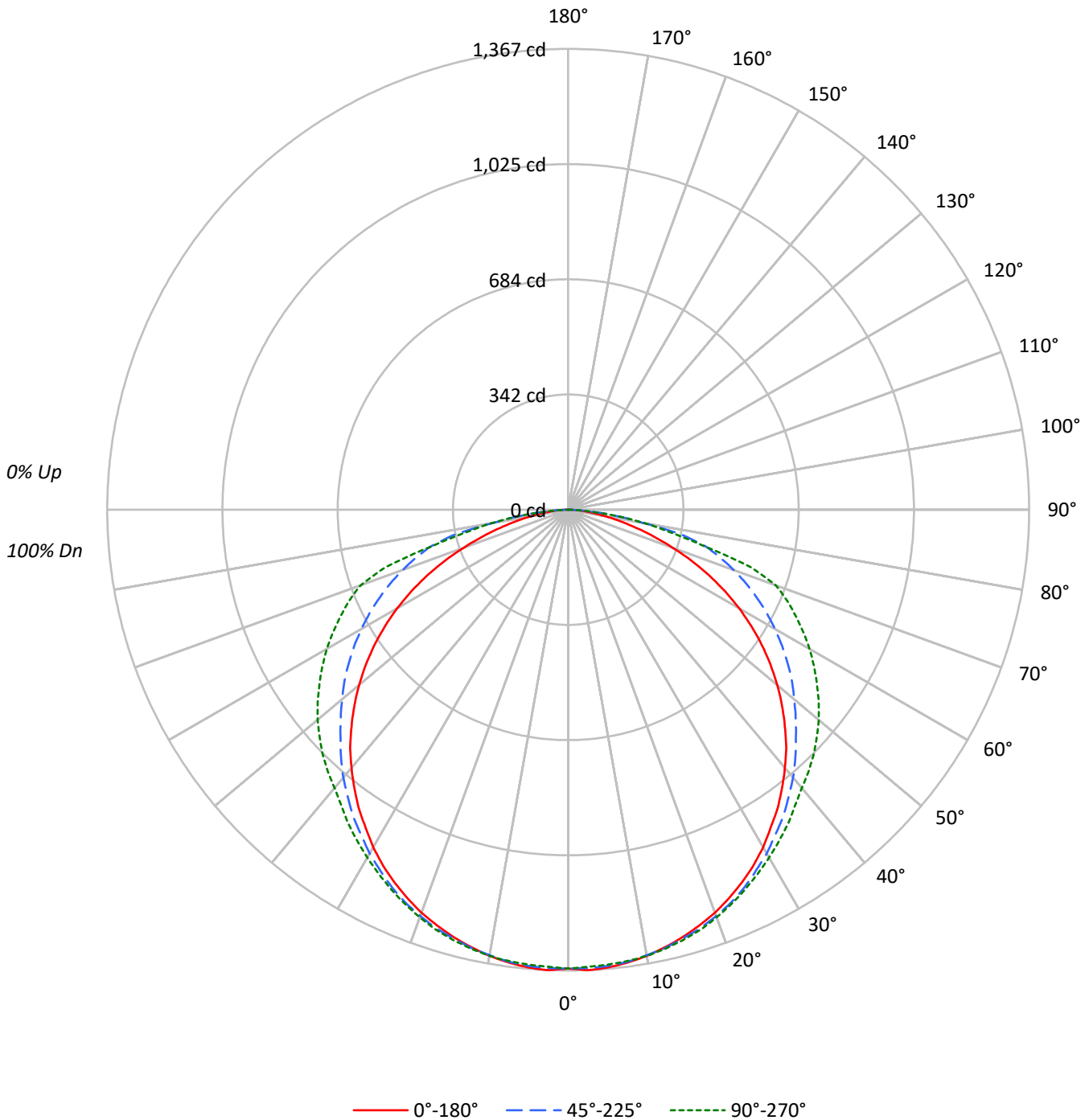
Input Watts (W): 48.820164
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1831	1831	1831
5°	1841	1835	1830
10°	1836	1833	1836
15°	1828	1834	1840
20°	1822	1837	1843
25°	1810	1835	1845
30°	1796	1829	1852
35°	1777	1826	1867
40°	1756	1822	1893
45°	1729	1818	1958
50°	1694	1831	2030
55°	1646	1864	2112
60°	1575	1905	2224
65°	1467	1965	2368
70°	1297	2054	2577
75°	1088	2197	2164
80°	868	1736	1801
85°	685	1175	1076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	3.0
10°-20°	371.5	8.7
20°-30°	567.4	13.2
30°-40°	693.7	16.2
40°-50°	742.5	17.3
50°-60°	712.2	16.6
60°-70°	601.4	14.0
70°-80°	384.3	9.0
80°-90°	90.9	2.1
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°	1068.0	24.9
0°-40°	1761.7	41.0
0°-60°	3216.4	74.9
0°-90°	4293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1363	1355	1359	1357	1355	129
15°	1312	1308	1316	1321	1321	371
25°	1219	1217	1236	1240	1243	562
35°	1082	1090	1112	1126	1137	676
45°	909	924	955	1000	1029	701
55°	702	725	795	866	900	626
65°	461	505	617	704	744	454
75°	209	298	423	431	416	225
85°	44	74	76	74	70	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.9	1360.9	1360.9	1360.9	1360.9
2.5°	1367.3	1358.8	1360.9	1360.9	1356.7
5°	1363.0	1354.6	1358.8	1356.7	1354.6
7.5°	1354.6	1348.2	1352.5	1352.5	1350.4
10°	1344.0	1337.7	1341.9	1344.0	1344.0
12.5°	1329.2	1325.0	1331.3	1331.3	1333.4
15°	1312.3	1308.1	1316.5	1320.8	1320.8
17.5°	1293.3	1291.2	1301.7	1303.9	1306.0
20°	1272.2	1270.0	1282.7	1282.7	1287.0
22.5°	1246.8	1244.7	1261.6	1261.6	1265.8
25°	1219.3	1217.2	1236.2	1240.5	1242.6
27.5°	1189.7	1187.6	1206.7	1213.0	1217.2
30°	1155.9	1155.9	1177.1	1185.5	1191.9
32.5°	1117.9	1124.2	1143.3	1155.9	1164.4
35°	1082.0	1090.4	1111.6	1126.3	1136.9
37.5°	1041.8	1050.3	1073.5	1092.5	1105.2
40°	999.6	1010.1	1037.6	1058.7	1077.7
42.5°	957.3	967.9	997.4	1029.1	1054.5
45°	908.7	923.5	955.2	999.6	1029.1
47.5°	860.1	874.9	915.0	970.0	999.6
50°	809.4	826.3	874.9	938.3	970.0
52.5°	756.5	775.6	836.8	904.5	936.2
55°	701.6	724.8	794.6	866.4	900.2
57.5°	644.5	669.9	752.3	828.4	864.3
60°	585.4	617.1	707.9	788.2	826.3
62.5°	524.1	562.1	663.6	746.0	786.1
65°	460.7	505.1	617.1	703.7	743.9
67.5°	395.2	454.3	570.6	661.4	701.6
70°	329.7	399.4	522.0	614.9	655.1
72.5°	268.4	348.7	473.4	560.0	568.5
75°	209.2	298.0	422.6	431.1	416.3
77.5°	156.4	247.2	348.7	310.6	308.5
80°	112.0	198.6	224.0	230.3	232.5
82.5°	74.0	150.0	145.8	150.0	147.9
85°	44.4	74.0	76.1	74.0	69.7
87.5°	21.1	27.5	21.1	19.0	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)