

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: P263855

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263855
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-LD5-70-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4600.0 lumens
Efficiency: N/A
Efficacy: 83.4 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

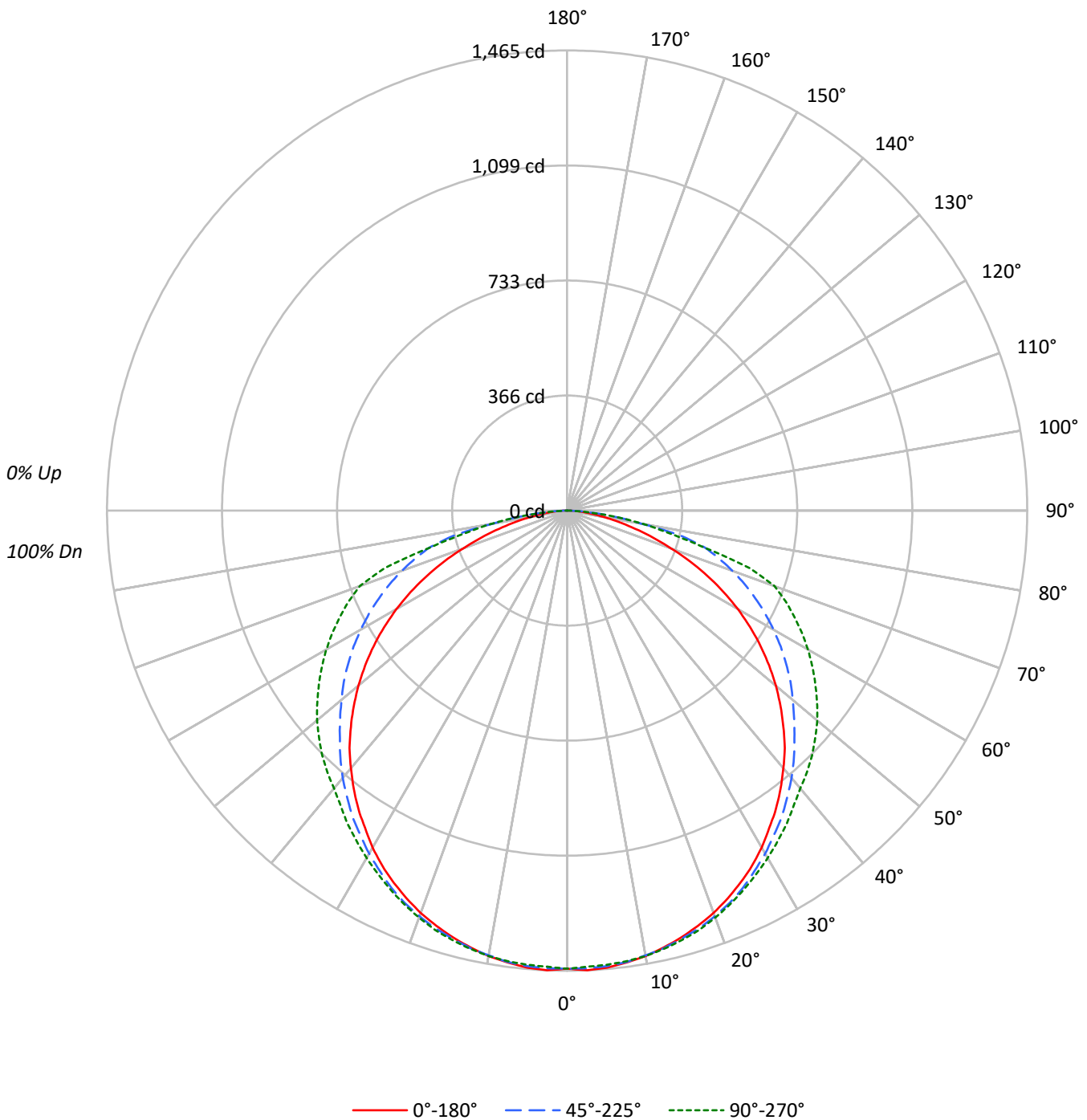
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1962	1962	1962
5°	1973	1967	1960
10°	1968	1965	1968
15°	1959	1965	1971
20°	1952	1968	1975
25°	1940	1966	1977
30°	1924	1959	1984
35°	1904	1956	2001
40°	1881	1953	2028
45°	1853	1948	2098
50°	1815	1962	2175
55°	1764	1997	2263
60°	1688	2041	2383
65°	1571	2105	2537
70°	1389	2200	2761
75°	1166	2354	2319
80°	930	1860	1930
85°	735	1258	1153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.0
10°-20°	398.0	8.7
20°-30°	608.0	13.2
30°-40°	743.3	16.2
40°-50°	795.6	17.3
50°-60°	763.2	16.6
60°-70°	644.4	14.0
70°-80°	411.8	9.0
80°-90°	97.4	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°	1144.3	24.9
0°-40°	1887.6	41.0
0°-60°	3446.4	74.9
0°-90°	4600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1460	1451	1456	1454	1451	139
15°	1406	1402	1411	1415	1415	397
25°	1306	1304	1325	1329	1331	602
35°	1159	1168	1191	1207	1218	725
45°	974	990	1024	1071	1103	751
55°	752	777	851	928	965	671
65°	494	541	661	754	797	487
75°	224	319	453	462	446	241
85°	48	79	82	79	75	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1458.2	1458.2	1458.2	1458.2	1458.2
2.5°	1465.0	1456.0	1458.2	1458.2	1453.7
5°	1460.5	1451.4	1456.0	1453.7	1451.4
7.5°	1451.4	1444.7	1449.2	1449.2	1446.9
10°	1440.1	1433.3	1437.9	1440.1	1440.1
12.5°	1424.3	1419.7	1426.5	1426.5	1428.8
15°	1406.2	1401.6	1410.7	1415.2	1415.2
17.5°	1385.8	1383.5	1394.8	1397.1	1399.4
20°	1363.1	1360.9	1374.5	1374.5	1379.0
22.5°	1336.0	1333.7	1351.8	1351.8	1356.3
25°	1306.5	1304.3	1324.6	1329.2	1331.4
27.5°	1274.8	1272.6	1292.9	1299.7	1304.3
30°	1238.6	1238.6	1261.2	1270.3	1277.1
32.5°	1197.8	1204.6	1225.0	1238.6	1247.7
35°	1159.3	1168.4	1191.0	1206.9	1218.2
37.5°	1116.3	1125.4	1150.3	1170.7	1184.3
40°	1071.0	1082.4	1111.8	1134.4	1154.8
42.5°	1025.7	1037.1	1068.8	1102.7	1129.9
45°	973.7	989.5	1023.5	1071.0	1102.7
47.5°	921.6	937.4	980.5	1039.3	1071.0
50°	867.2	885.4	937.4	1005.4	1039.3
52.5°	810.6	831.0	896.7	969.1	1003.1
55°	751.8	776.7	851.4	928.4	964.6
57.5°	690.6	717.8	806.1	887.6	926.1
60°	627.2	661.2	758.6	844.6	885.4
62.5°	561.6	602.3	711.0	799.3	842.3
65°	493.6	541.2	661.2	754.0	797.0
67.5°	423.4	486.8	611.4	708.7	751.8
70°	353.2	428.0	559.3	658.9	701.9
72.5°	287.6	373.6	507.2	600.1	609.1
75°	224.2	319.3	452.9	461.9	446.1
77.5°	167.6	264.9	373.6	332.9	330.6
80°	120.0	212.8	240.0	246.8	249.1
82.5°	79.3	160.8	156.2	160.8	158.5
85°	47.6	79.3	81.5	79.3	74.7
87.5°	22.6	29.4	22.6	20.4	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)