

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: P263854

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263854
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4530.0 lumens
Efficiency: N/A
Efficacy: 82.4 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

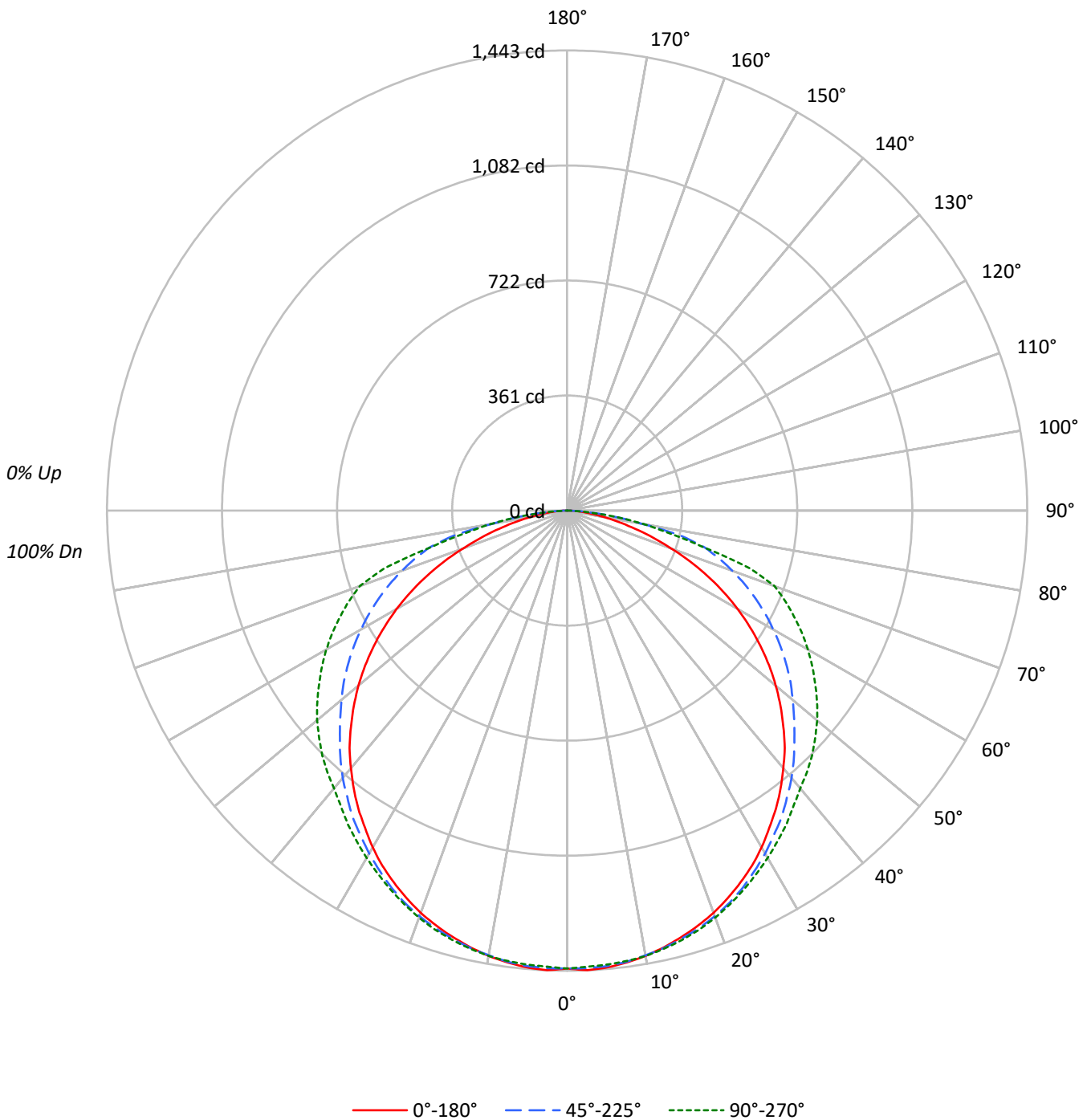
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1932	1932	1932
5°	1943	1937	1931
10°	1938	1935	1938
15°	1929	1935	1941
20°	1922	1938	1944
25°	1910	1937	1947
30°	1895	1930	1954
35°	1875	1927	1971
40°	1852	1923	1997
45°	1825	1918	2066
50°	1788	1932	2142
55°	1737	1967	2228
60°	1662	2010	2346
65°	1548	2073	2499
70°	1369	2167	2720
75°	1148	2319	2284
80°	916	1832	1901
85°	722	1240	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	3.0
10°-20°	392.0	8.7
20°-30°	598.7	13.2
30°-40°	732.0	16.2
40°-50°	783.5	17.3
50°-60°	751.5	16.6
60°-70°	634.6	14.0
70°-80°	405.5	9.0
80°-90°	95.9	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°	1126.9	24.9
0°-40°	1858.9	41.0
0°-60°	3394.0	74.9
0°-90°	4530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1438	1429	1434	1432	1429	137
15°	1385	1380	1389	1394	1394	391
25°	1287	1284	1304	1309	1311	593
35°	1142	1151	1173	1188	1200	714
45°	959	974	1008	1055	1086	740
55°	740	765	838	914	950	661
65°	486	533	651	743	785	479
75°	221	314	446	455	439	238
85°	47	78	80	78	74	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.0	1436.0	1436.0	1436.0	1436.0
2.5°	1442.7	1433.8	1436.0	1436.0	1431.6
5°	1438.3	1429.4	1433.8	1431.6	1429.4
7.5°	1429.4	1422.7	1427.1	1427.1	1424.9
10°	1418.2	1411.5	1416.0	1418.2	1418.2
12.5°	1402.6	1398.1	1404.8	1404.8	1407.1
15°	1384.8	1380.3	1389.2	1393.7	1393.7
17.5°	1364.7	1362.5	1373.6	1375.8	1378.1
20°	1342.4	1340.2	1353.5	1353.5	1358.0
22.5°	1315.6	1313.4	1331.2	1331.2	1335.7
25°	1286.6	1284.4	1304.5	1308.9	1311.2
27.5°	1255.4	1253.2	1273.3	1280.0	1284.4
30°	1219.7	1219.7	1242.0	1251.0	1257.7
32.5°	1179.6	1186.3	1206.4	1219.7	1228.7
35°	1141.7	1150.6	1172.9	1188.5	1199.7
37.5°	1099.3	1108.3	1132.8	1152.9	1166.2
40°	1054.7	1065.9	1094.9	1117.2	1137.2
42.5°	1010.1	1021.3	1052.5	1086.0	1112.7
45°	958.9	974.5	1007.9	1054.7	1086.0
47.5°	907.6	923.2	965.5	1023.5	1054.7
50°	854.0	871.9	923.2	990.1	1023.5
52.5°	798.3	818.4	883.0	954.4	987.8
55°	740.3	764.9	838.4	914.3	949.9
57.5°	680.1	706.9	793.8	874.1	912.0
60°	617.7	651.1	747.0	831.7	871.9
62.5°	553.0	593.2	700.2	787.2	829.5
65°	486.1	532.9	651.1	742.6	784.9
67.5°	417.0	479.4	602.1	698.0	740.3
70°	347.9	421.4	550.8	648.9	691.3
72.5°	283.2	367.9	499.5	590.9	599.8
75°	220.8	314.4	446.0	454.9	439.3
77.5°	165.0	260.9	367.9	327.8	325.6
80°	118.2	209.6	236.4	243.1	245.3
82.5°	78.0	158.3	153.9	158.3	156.1
85°	46.8	78.0	80.3	78.0	73.6
87.5°	22.3	29.0	22.3	20.1	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)