

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: P263856

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263856
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4620.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

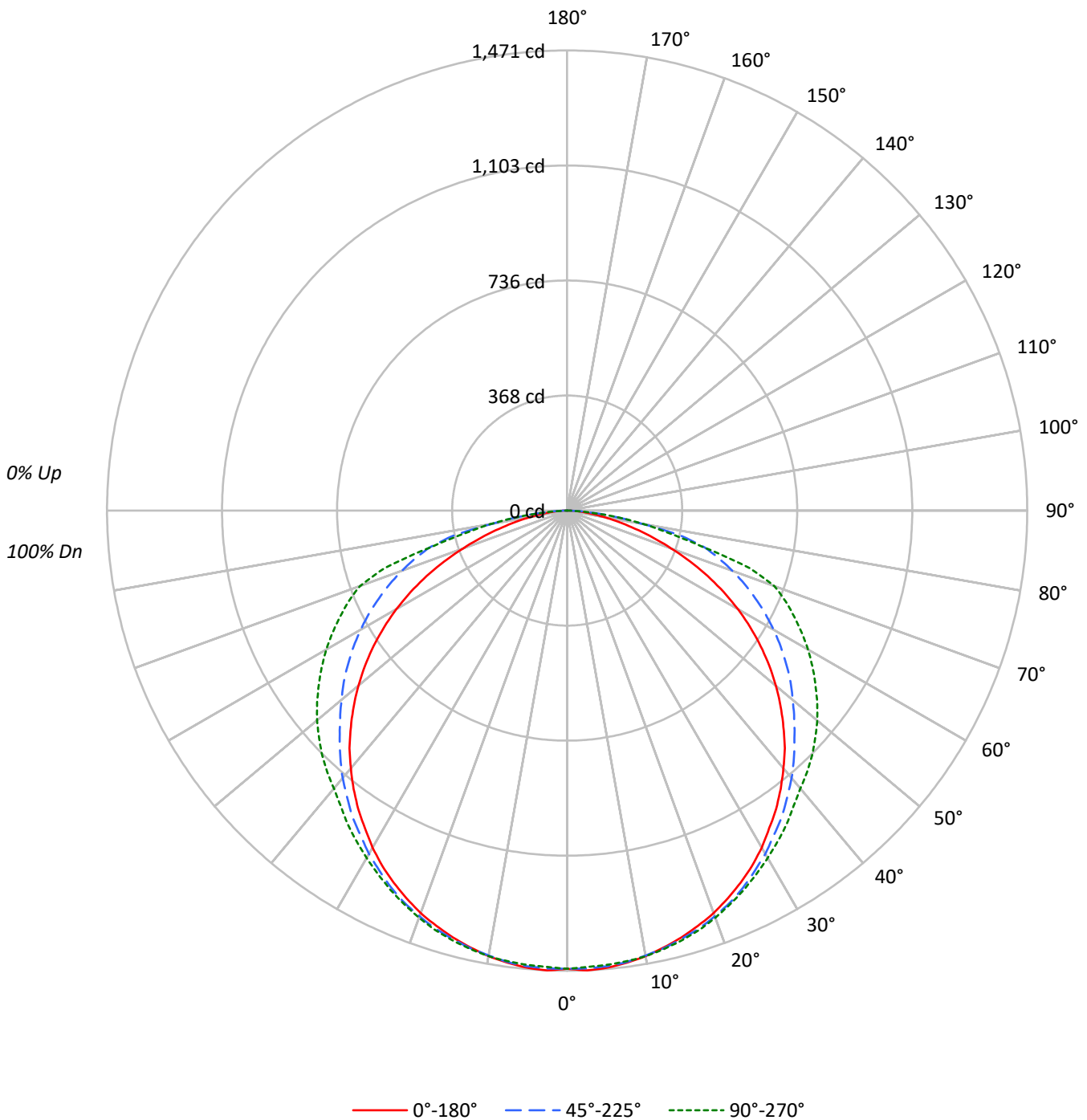
Input Watts (W): 55.335
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1971	1971	1971
5°	1981	1975	1969
10°	1976	1973	1976
15°	1967	1974	1980
20°	1960	1977	1983
25°	1948	1975	1985
30°	1933	1968	1993
35°	1913	1965	2010
40°	1889	1961	2037
45°	1861	1956	2107
50°	1823	1971	2185
55°	1771	2006	2273
60°	1695	2050	2393
65°	1578	2114	2549
70°	1396	2210	2773
75°	1170	2364	2329
80°	934	1868	1939
85°	738	1264	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.0
10°-20°	399.8	8.7
20°-30°	610.6	13.2
30°-40°	746.5	16.2
40°-50°	799.1	17.3
50°-60°	766.5	16.6
60°-70°	647.2	14.0
70°-80°	413.6	9.0
80°-90°	97.8	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°	1149.3	24.9
0°-40°	1895.9	41.0
0°-60°	3461.4	74.9
0°-90°	4620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1467	1458	1462	1460	1458	139
15°	1412	1408	1417	1421	1421	399
25°	1312	1310	1330	1335	1337	605
35°	1164	1174	1196	1212	1224	728
45°	978	994	1028	1076	1108	754
55°	755	780	855	932	969	674
65°	496	544	664	757	800	489
75°	225	321	455	464	448	242
85°	48	80	82	80	75	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1464.6	1464.6	1464.6	1464.6	1464.6
2.5°	1471.4	1462.3	1464.6	1464.6	1460.0
5°	1466.9	1457.8	1462.3	1460.0	1457.8
7.5°	1457.8	1450.9	1455.5	1455.5	1453.2
10°	1446.4	1439.6	1444.1	1446.4	1446.4
12.5°	1430.5	1425.9	1432.7	1432.7	1435.0
15°	1412.3	1407.7	1416.8	1421.4	1421.4
17.5°	1391.8	1389.5	1400.9	1403.2	1405.4
20°	1369.1	1366.8	1380.4	1380.4	1385.0
22.5°	1341.8	1339.5	1357.7	1357.7	1362.2
25°	1312.2	1309.9	1330.4	1334.9	1337.2
27.5°	1280.4	1278.1	1298.6	1305.4	1309.9
30°	1244.0	1244.0	1266.7	1275.8	1282.6
32.5°	1203.0	1209.9	1230.3	1244.0	1253.1
35°	1164.4	1173.5	1196.2	1212.1	1223.5
37.5°	1121.2	1130.3	1155.3	1175.8	1189.4
40°	1075.7	1087.1	1116.6	1139.4	1159.8
42.5°	1030.2	1041.6	1073.4	1107.5	1134.8
45°	977.9	993.8	1027.9	1075.7	1107.5
47.5°	925.6	941.5	984.7	1043.9	1075.7
50°	871.0	889.2	941.5	1009.7	1043.9
52.5°	814.2	834.6	900.6	973.4	1007.5
55°	755.0	780.0	855.1	932.4	968.8
57.5°	693.6	720.9	809.6	891.5	930.1
60°	630.0	664.1	761.9	848.3	889.2
62.5°	564.0	604.9	714.1	802.8	846.0
65°	495.8	543.5	664.1	757.3	800.5
67.5°	425.3	489.0	614.0	711.8	755.0
70°	354.8	429.8	561.7	661.8	705.0
72.5°	288.8	375.2	509.4	602.7	611.8
75°	225.1	320.7	454.8	463.9	448.0
77.5°	168.3	266.1	375.2	334.3	332.0
80°	120.5	213.8	241.1	247.9	250.2
82.5°	79.6	161.5	156.9	161.5	159.2
85°	47.8	79.6	81.9	79.6	75.0
87.5°	22.7	29.6	22.7	20.5	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)