

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: P263696

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263696
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-LD5-60-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3847.0 lumens
Efficiency: N/A
Efficacy: 86.9 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

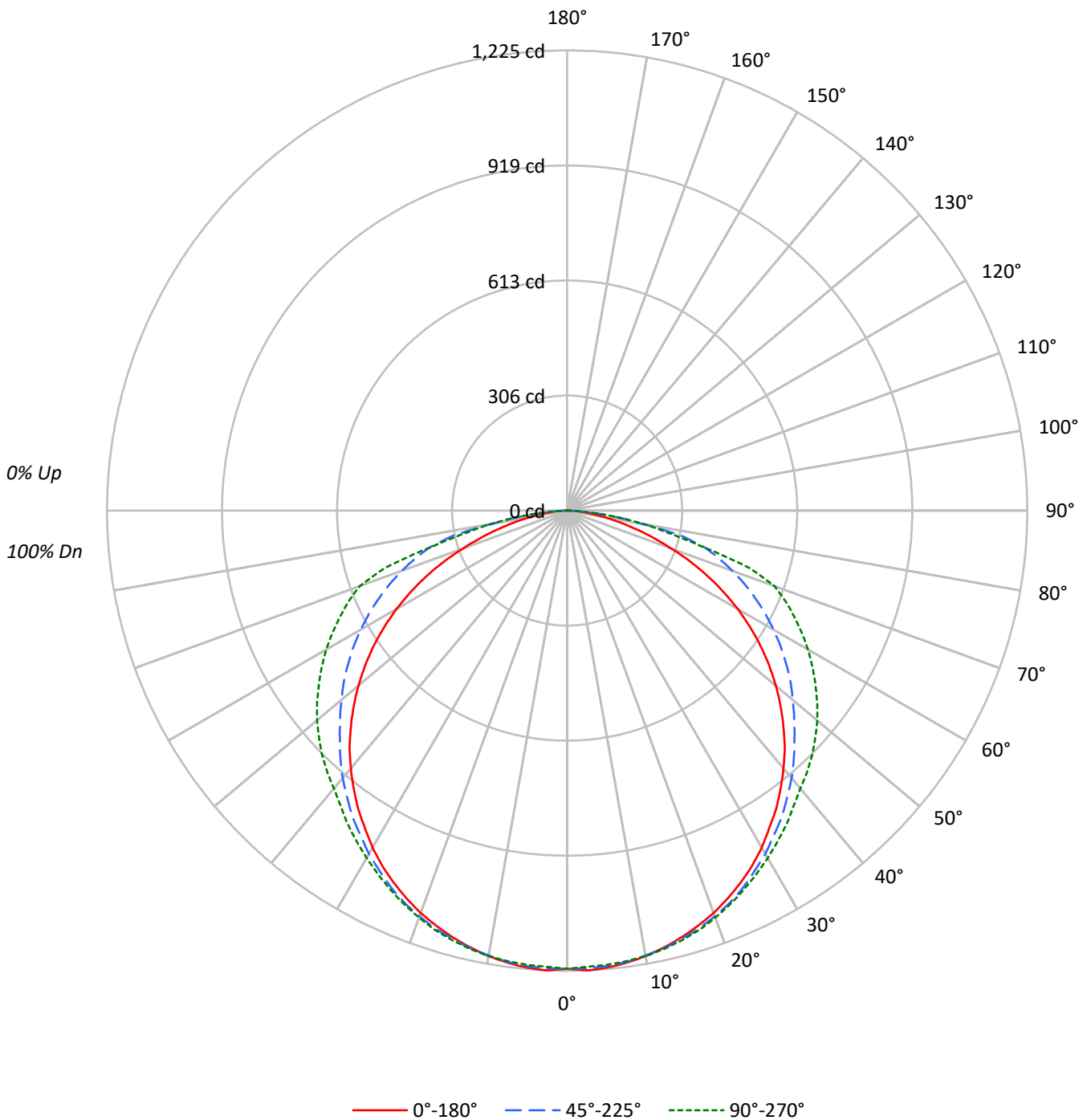
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1641	1641	1641
5°	1650	1645	1640
10°	1646	1643	1646
15°	1638	1643	1649
20°	1632	1646	1651
25°	1622	1645	1653
30°	1609	1639	1659
35°	1593	1636	1673
40°	1573	1633	1696
45°	1549	1629	1755
50°	1518	1641	1819
55°	1475	1670	1892
60°	1411	1707	1992
65°	1314	1761	2122
70°	1162	1840	2309
75°	975	1969	1940
80°	778	1555	1614
85°	614	1053	965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.0
10°-20°	332.9	8.7
20°-30°	508.5	13.2
30°-40°	621.6	16.2
40°-50°	665.4	17.3
50°-60°	638.2	16.6
60°-70°	538.9	14.0
70°-80°	344.4	9.0
80°-90°	81.5	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°	957.0	24.9
0°-40°	1578.7	41.0
0°-60°	2882.3	74.9
0°-90°	3847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1221	1214	1218	1216	1214	116
15°	1176	1172	1180	1184	1184	332
25°	1093	1091	1108	1112	1114	504
35°	970	977	996	1009	1019	606
45°	814	828	856	896	922	628
55°	629	650	712	776	807	561
65°	413	453	553	631	667	407
75°	188	267	379	386	373	202
85°	40	66	68	66	62	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.5	1219.5	1219.5	1219.5	1219.5
2.5°	1225.2	1217.6	1219.5	1219.5	1215.7
5°	1221.4	1213.9	1217.6	1215.7	1213.9
7.5°	1213.9	1208.2	1212.0	1212.0	1210.1
10°	1204.4	1198.7	1202.5	1204.4	1204.4
12.5°	1191.1	1187.3	1193.0	1193.0	1194.9
15°	1176.0	1172.2	1179.8	1183.6	1183.6
17.5°	1158.9	1157.0	1166.5	1168.4	1170.3
20°	1140.0	1138.1	1149.5	1149.5	1153.3
22.5°	1117.3	1115.4	1130.5	1130.5	1134.3
25°	1092.7	1090.8	1107.8	1111.6	1113.5
27.5°	1066.1	1064.2	1081.3	1087.0	1090.8
30°	1035.8	1035.8	1054.8	1062.4	1068.0
32.5°	1001.8	1007.4	1024.5	1035.8	1043.4
35°	969.6	977.1	996.1	1009.3	1018.8
37.5°	933.6	941.2	962.0	979.0	990.4
40°	895.7	905.2	929.8	948.7	965.8
42.5°	857.8	867.3	893.8	922.2	944.9
45°	814.3	827.5	855.9	895.7	922.2
47.5°	770.7	784.0	820.0	869.2	895.7
50°	725.3	740.4	784.0	840.8	869.2
52.5°	677.9	695.0	749.9	810.5	838.9
55°	628.7	649.5	712.0	776.4	806.7
57.5°	577.6	600.3	674.2	742.3	774.5
60°	524.5	553.0	634.4	706.3	740.4
62.5°	469.6	503.7	594.6	668.5	704.4
65°	412.8	452.6	553.0	630.6	666.6
67.5°	354.1	407.1	511.3	592.7	628.7
70°	295.4	357.9	467.7	551.1	587.0
72.5°	240.5	312.5	424.2	501.8	509.4
75°	187.5	267.0	378.7	386.3	373.1
77.5°	140.1	221.6	312.5	278.4	276.5
80°	100.4	178.0	200.7	206.4	208.3
82.5°	66.3	134.5	130.7	134.5	132.6
85°	39.8	66.3	68.2	66.3	62.5
87.5°	18.9	24.6	18.9	17.0	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)