

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: P263599

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263599
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-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3848.5 lumens
Efficiency: N/A
Efficacy: 84.7 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

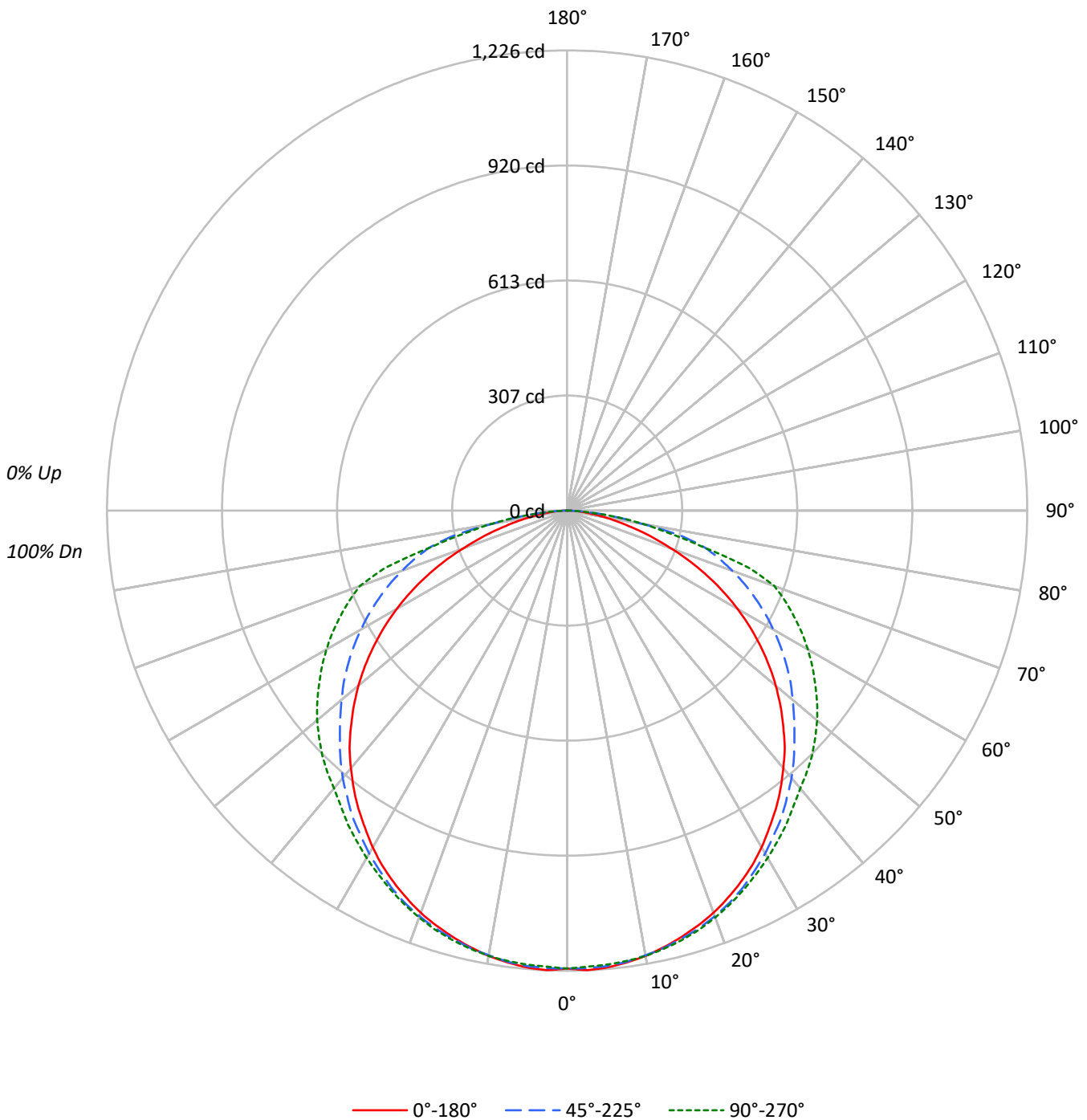
Input Watts (W): 45.418968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1639	1644	1649
20°	1633	1646	1652
25°	1623	1645	1654
30°	1610	1639	1660
35°	1593	1637	1674
40°	1574	1634	1697
45°	1550	1629	1756
50°	1519	1642	1820
55°	1475	1671	1893
60°	1412	1708	1993
65°	1315	1761	2123
70°	1162	1841	2310
75°	975	1970	1940
80°	778	1556	1615
85°	614	1053	965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.0
10°-20°	333.0	8.7
20°-30°	508.7	13.2
30°-40°	621.9	16.2
40°-50°	665.6	17.3
50°-60°	638.5	16.6
60°-70°	539.1	14.0
70°-80°	344.5	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°	957.4	24.9
0°-40°	1579.3	41.0
0°-60°	2883.4	74.9
0°-90°	3848.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3848.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1222	1214	1218	1216	1214	116
15°	1176	1173	1180	1184	1184	332
25°	1093	1091	1108	1112	1114	504
35°	970	978	996	1010	1019	606
45°	815	828	856	896	923	628
55°	629	650	712	777	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°	1220.0	1220.0	1220.0	1220.0	1220.0
2.5°	1225.7	1218.1	1220.0	1220.0	1216.2
5°	1221.9	1214.3	1218.1	1216.2	1214.3
7.5°	1214.3	1208.6	1212.4	1212.4	1210.5
10°	1204.8	1199.2	1202.9	1204.8	1204.8
12.5°	1191.6	1187.8	1193.5	1193.5	1195.4
15°	1176.4	1172.6	1180.2	1184.0	1184.0
17.5°	1159.4	1157.5	1167.0	1168.9	1170.7
20°	1140.4	1138.5	1149.9	1149.9	1153.7
22.5°	1117.7	1115.8	1131.0	1131.0	1134.8
25°	1093.1	1091.2	1108.2	1112.0	1113.9
27.5°	1066.6	1064.7	1081.7	1087.4	1091.2
30°	1036.2	1036.2	1055.2	1062.8	1068.4
32.5°	1002.1	1007.8	1024.9	1036.2	1043.8
35°	969.9	977.5	996.5	1009.7	1019.2
37.5°	933.9	941.5	962.4	979.4	990.8
40°	896.1	905.5	930.2	949.1	966.1
42.5°	858.2	867.6	894.2	922.6	945.3
45°	814.6	827.9	856.3	896.1	922.6
47.5°	771.0	784.3	820.3	869.5	896.1
50°	725.6	740.7	784.3	841.1	869.5
52.5°	678.2	695.2	750.2	810.8	839.2
55°	628.9	649.8	712.3	776.7	807.0
57.5°	577.8	600.5	674.4	742.6	774.8
60°	524.8	553.2	634.6	706.6	740.7
62.5°	469.8	503.9	594.8	668.7	704.7
65°	413.0	452.8	553.2	630.8	666.8
67.5°	354.3	407.3	511.5	592.9	628.9
70°	295.5	358.0	467.9	551.3	587.3
72.5°	240.6	312.6	424.3	502.0	509.6
75°	187.5	267.1	378.9	386.5	373.2
77.5°	140.2	221.6	312.6	278.5	276.6
80°	100.4	178.1	200.8	206.5	208.4
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	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)