

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: P263534

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263534
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-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5145.0 lumens
Efficiency: N/A
Efficacy: 93.7 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

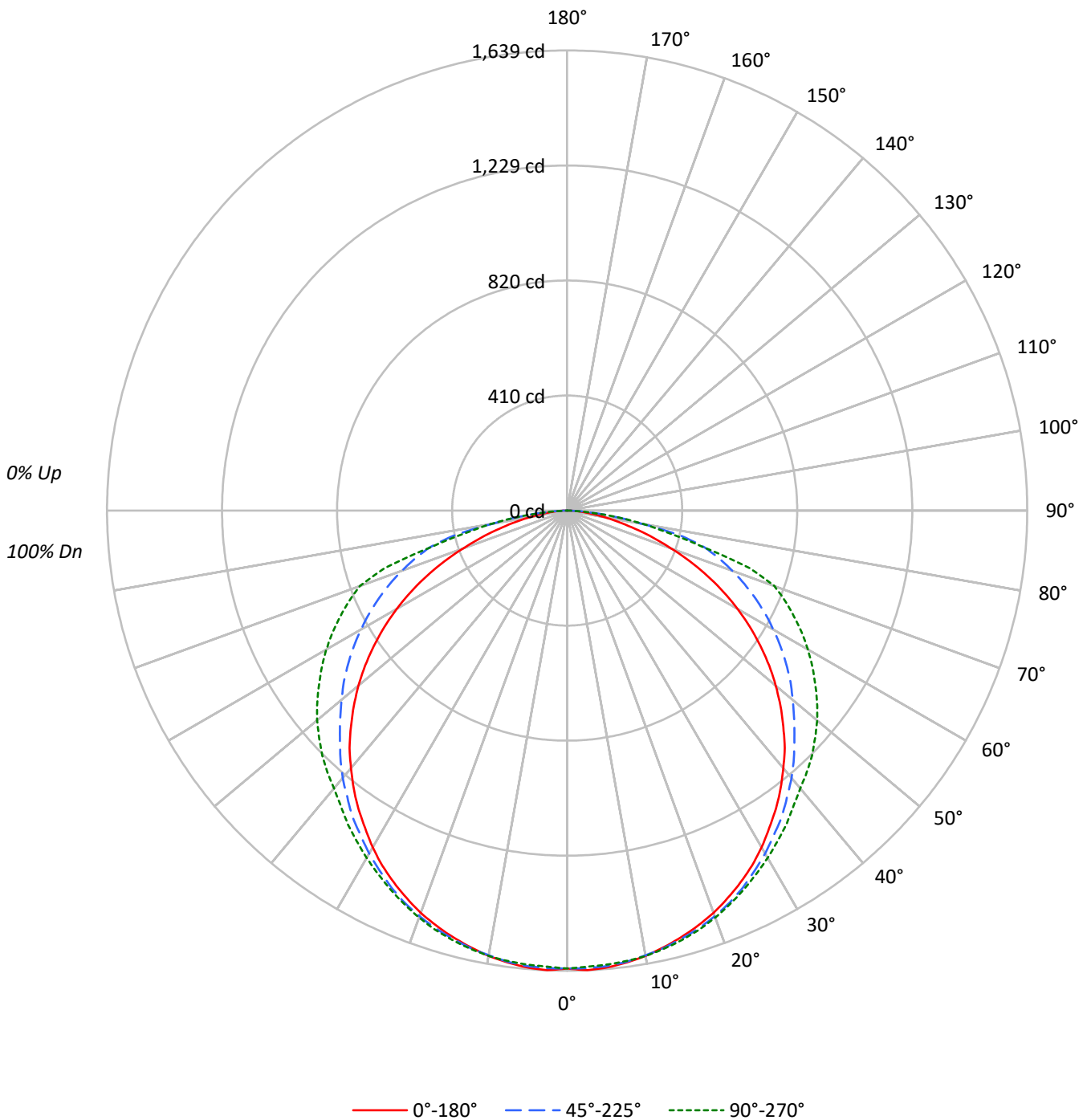
Input Watts (W): 54.895203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2194	2194	2194
5°	2206	2199	2193
10°	2201	2197	2201
15°	2191	2198	2205
20°	2183	2201	2208
25°	2169	2200	2211
30°	2152	2192	2219
35°	2130	2188	2238
40°	2104	2184	2269
45°	2072	2178	2347
50°	2030	2195	2433
55°	1972	2234	2531
60°	1888	2283	2665
65°	1758	2354	2838
70°	1554	2461	3089
75°	1303	2633	2594
80°	1040	2080	2159
85°	821	1408	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.0
10°-20°	445.2	8.7
20°-30°	680.0	13.2
30°-40°	831.4	16.2
40°-50°	889.9	17.3
50°-60°	853.6	16.6
60°-70°	720.7	14.0
70°-80°	460.6	9.0
80°-90°	108.9	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°	1279.9	24.9
0°-40°	2111.3	41.0
0°-60°	3854.8	74.9
0°-90°	5145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1634	1623	1628	1626	1623	155
15°	1573	1568	1578	1583	1583	444
25°	1461	1459	1482	1487	1489	673
35°	1297	1307	1332	1350	1363	811
45°	1089	1107	1145	1198	1233	840
55°	841	869	952	1038	1079	750
65°	552	605	740	843	892	545
75°	251	357	506	517	499	270
85°	53	89	91	89	84	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.0	1631.0	1631.0	1631.0	1631.0
2.5°	1638.6	1628.5	1631.0	1631.0	1625.9
5°	1633.5	1623.4	1628.5	1625.9	1623.4
7.5°	1623.4	1615.8	1620.9	1620.9	1618.3
10°	1610.7	1603.1	1608.2	1610.7	1610.7
12.5°	1593.0	1588.0	1595.6	1595.6	1598.1
15°	1572.8	1567.7	1577.8	1582.9	1582.9
17.5°	1550.0	1547.4	1560.1	1562.6	1565.2
20°	1524.6	1522.1	1537.3	1537.3	1542.4
22.5°	1494.2	1491.7	1512.0	1512.0	1517.0
25°	1461.3	1458.8	1481.6	1486.6	1489.2
27.5°	1425.9	1423.3	1446.1	1453.7	1458.8
30°	1385.3	1385.3	1410.7	1420.8	1428.4
32.5°	1339.8	1347.4	1370.1	1385.3	1395.5
35°	1296.7	1306.8	1332.2	1349.9	1362.6
37.5°	1248.6	1258.7	1286.6	1309.4	1324.6
40°	1197.9	1210.6	1243.5	1268.8	1291.6
42.5°	1147.3	1159.9	1195.4	1233.4	1263.8
45°	1089.0	1106.8	1144.7	1197.9	1233.4
47.5°	1030.8	1048.5	1096.6	1162.5	1197.9
50°	970.0	990.3	1048.5	1124.5	1162.5
52.5°	906.7	929.5	1002.9	1084.0	1122.0
55°	840.8	868.7	952.3	1038.4	1078.9
57.5°	772.4	802.8	901.6	992.8	1035.8
60°	701.5	739.5	848.4	944.7	990.3
62.5°	628.1	673.7	795.2	894.0	942.1
65°	552.1	605.3	739.5	843.4	891.5
67.5°	473.6	544.5	683.8	792.7	840.8
70°	395.1	478.7	625.6	737.0	785.1
72.5°	321.6	417.9	567.3	671.1	681.3
75°	250.7	357.1	506.5	516.7	498.9
77.5°	187.4	296.3	417.9	372.3	369.8
80°	134.2	238.1	268.5	276.1	278.6
82.5°	88.6	179.8	174.8	179.8	177.3
85°	53.2	88.6	91.2	88.6	83.6
87.5°	25.3	32.9	25.3	22.8	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)