

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: P261386

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4506.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

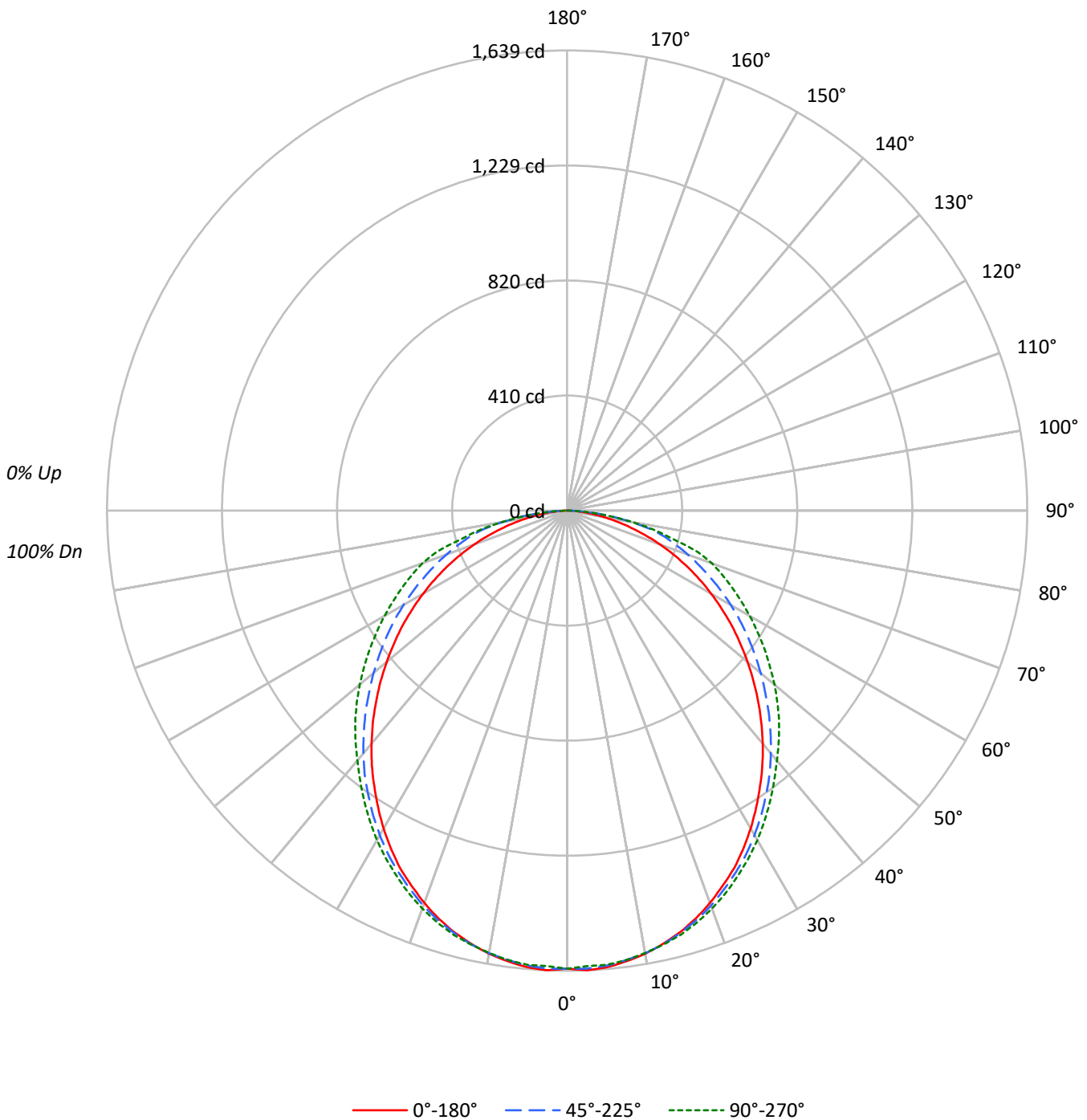
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2195	2195	2195
5°	2205	2197	2193
10°	2190	2188	2186
15°	2166	2170	2178
20°	2130	2145	2160
25°	2088	2110	2132
30°	2031	2073	2106
35°	1968	2029	2071
40°	1904	1983	2041
45°	1832	1931	2031
50°	1757	1883	2018
55°	1681	1843	2012
60°	1594	1812	2021
65°	1499	1790	2062
70°	1380	1799	2159
75°	1224	1863	2011
80°	1022	1766	1812
85°	764	1413	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.4
10°-20°	438.6	9.7
20°-30°	653.7	14.5
30°-40°	769.5	17.1
40°-50°	782.0	17.4
50°-60°	703.0	15.6
60°-70°	555.4	12.3
70°-80°	352.4	7.8
80°-90°	97.3	2.2
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°	1246.5	27.7
0°-40°	2016.0	44.7
0°-60°	3501.0	77.7
0°-90°	4506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1633	1619	1627	1624	1624	155
15°	1555	1547	1558	1562	1564	438
25°	1406	1405	1421	1430	1436	647
35°	1198	1205	1235	1249	1261	749
45°	963	976	1015	1045	1068	743
55°	717	735	786	837	858	640
65°	471	495	562	624	648	466
75°	235	276	358	390	387	251
85°	50	86	92	84	84	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.3	1631.3	1631.3	1631.3	1631.3
2.5°	1638.8	1626.8	1632.8	1629.8	1623.8
5°	1632.8	1619.3	1626.8	1623.8	1623.8
7.5°	1619.3	1608.8	1614.8	1613.3	1614.8
10°	1602.8	1592.3	1601.3	1601.3	1599.8
12.5°	1580.3	1571.3	1581.8	1581.8	1583.3
15°	1554.8	1547.3	1557.8	1562.3	1563.8
17.5°	1523.3	1515.8	1529.3	1533.8	1538.3
20°	1487.3	1484.3	1497.8	1502.3	1508.3
22.5°	1446.8	1446.8	1460.3	1466.3	1475.3
25°	1406.4	1404.9	1421.4	1430.3	1436.3
27.5°	1358.4	1359.9	1380.9	1389.9	1397.4
30°	1307.4	1310.4	1334.4	1344.9	1355.4
32.5°	1253.4	1259.4	1286.4	1298.4	1308.9
35°	1198.0	1205.4	1235.4	1248.9	1260.9
37.5°	1142.5	1153.0	1184.5	1198.0	1211.4
40°	1084.0	1093.0	1129.0	1145.5	1162.0
42.5°	1024.0	1036.0	1072.0	1096.0	1115.5
45°	962.6	976.1	1015.0	1045.0	1067.5
47.5°	901.1	919.1	956.6	997.0	1016.5
50°	839.6	857.6	899.6	944.6	964.1
52.5°	776.6	794.6	842.6	889.1	910.1
55°	716.7	734.7	785.6	836.6	857.6
57.5°	653.7	673.2	730.2	782.6	803.6
60°	592.2	611.7	673.2	728.7	751.2
62.5°	532.3	553.2	617.7	676.2	698.7
65°	470.8	494.8	562.2	623.7	647.7
67.5°	410.8	437.8	508.3	572.7	598.2
70°	350.8	382.3	457.3	523.3	548.7
72.5°	292.4	326.9	406.3	472.3	485.8
75°	235.4	275.9	358.3	389.8	386.8
77.5°	181.4	226.4	304.4	310.4	319.4
80°	131.9	181.4	227.9	239.9	233.9
82.5°	87.0	136.4	163.4	157.4	155.9
85°	49.5	85.5	91.5	84.0	84.0
87.5°	21.0	34.5	30.0	22.5	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)