

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: P261382

Luminaire Tested: **24CZ-LD5-45SE-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261382
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-LD5-45SE-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4387.0 lumens
Efficiency: N/A
Efficacy: 119.7 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

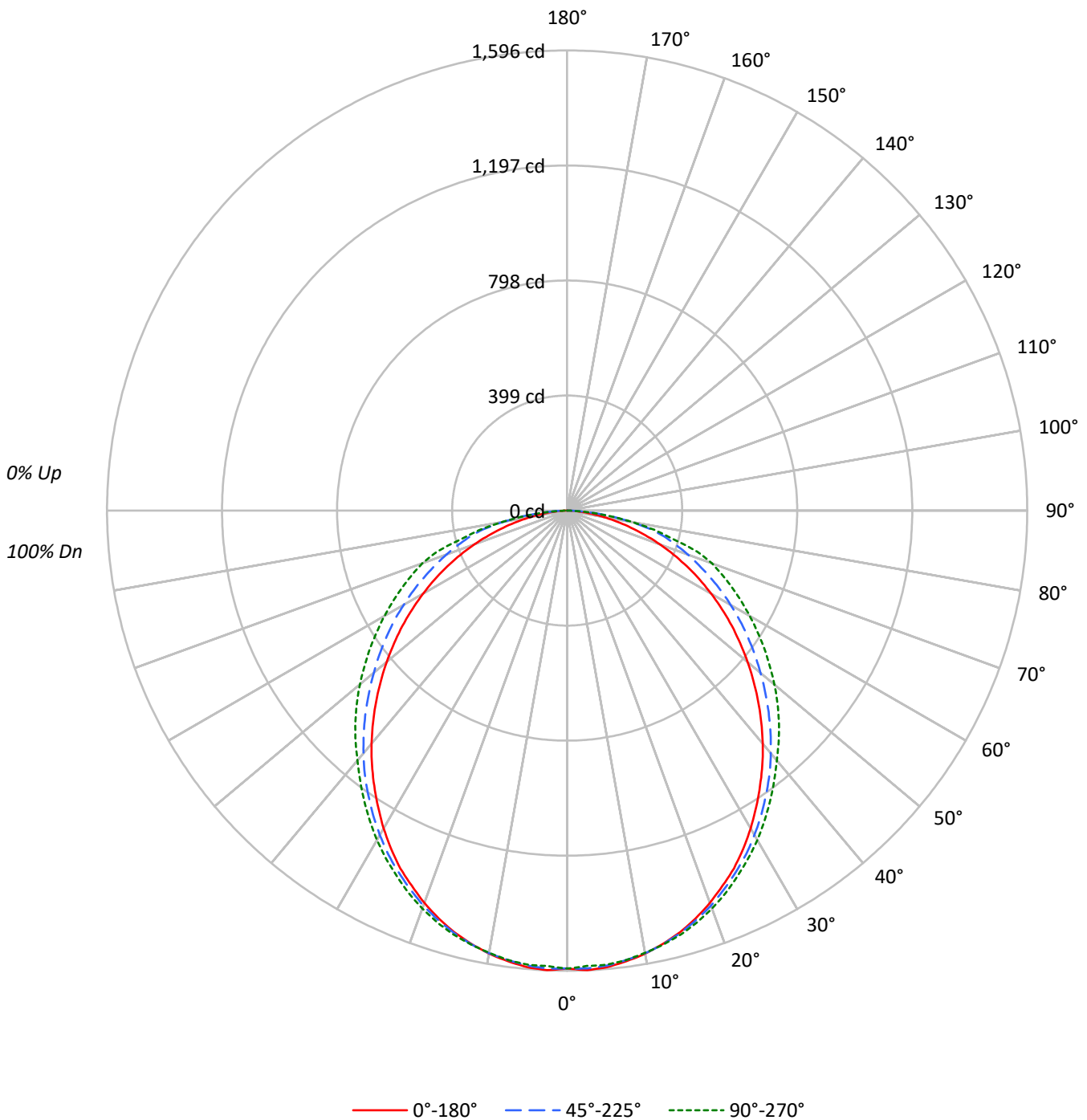
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2137	2137	2137
5°	2147	2139	2135
10°	2132	2130	2128
15°	2109	2113	2121
20°	2073	2088	2103
25°	2033	2054	2076
30°	1978	2018	2050
35°	1916	1976	2016
40°	1854	1931	1987
45°	1783	1880	1978
50°	1711	1833	1965
55°	1637	1794	1959
60°	1552	1764	1968
65°	1459	1743	2008
70°	1344	1751	2102
75°	1192	1814	1958
80°	996	1719	1764
85°	744	1374	1261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.4
10°-20°	427.0	9.7
20°-30°	636.4	14.5
30°-40°	749.1	17.1
40°-50°	761.3	17.4
50°-60°	684.5	15.6
60°-70°	540.7	12.3
70°-80°	343.0	7.8
80°-90°	94.7	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°	1213.6	27.7
0°-40°	1962.8	44.7
0°-60°	3408.5	77.7
0°-90°	4387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1590	1576	1584	1581	1581	151
15°	1514	1506	1517	1521	1522	426
25°	1369	1368	1384	1393	1398	630
35°	1166	1174	1203	1216	1228	730
45°	937	950	988	1017	1039	723
55°	698	715	765	814	835	623
65°	458	482	547	607	631	454
75°	229	269	349	380	377	244
85°	48	83	89	82	82	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.2	1588.2	1588.2	1588.2	1588.2
2.5°	1595.5	1583.8	1589.6	1586.7	1580.9
5°	1589.6	1576.5	1583.8	1580.9	1580.9
7.5°	1576.5	1566.3	1572.1	1570.7	1572.1
10°	1560.4	1550.2	1559.0	1559.0	1557.5
12.5°	1538.5	1529.8	1540.0	1540.0	1541.5
15°	1513.7	1506.4	1516.6	1521.0	1522.5
17.5°	1483.1	1475.8	1488.9	1493.3	1497.7
20°	1448.0	1445.1	1458.3	1462.6	1468.5
22.5°	1408.6	1408.6	1421.8	1427.6	1436.4
25°	1369.2	1367.8	1383.8	1392.6	1398.4
27.5°	1322.5	1324.0	1344.4	1353.2	1360.5
30°	1272.9	1275.8	1299.2	1309.4	1319.6
32.5°	1220.3	1226.2	1252.4	1264.1	1274.3
35°	1166.3	1173.6	1202.8	1215.9	1227.6
37.5°	1112.3	1122.5	1153.2	1166.3	1179.5
40°	1055.4	1064.1	1099.2	1115.2	1131.3
42.5°	997.0	1008.7	1043.7	1067.1	1086.0
45°	937.1	950.3	988.2	1017.4	1039.3
47.5°	877.3	894.8	931.3	970.7	989.7
50°	817.4	835.0	875.8	919.6	938.6
52.5°	756.1	773.7	820.4	865.6	886.0
55°	697.7	715.3	764.9	814.5	835.0
57.5°	636.4	655.4	710.9	762.0	782.4
60°	576.6	595.6	655.4	709.4	731.3
62.5°	518.2	538.6	601.4	658.3	680.2
65°	458.4	481.7	547.4	607.2	630.6
67.5°	400.0	426.2	494.8	557.6	582.4
70°	341.6	372.2	445.2	509.4	534.3
72.5°	284.6	318.2	395.6	459.8	472.9
75°	229.2	268.6	348.9	379.5	376.6
77.5°	176.6	220.4	296.3	302.2	310.9
80°	128.5	176.6	221.9	233.6	227.7
82.5°	84.7	132.8	159.1	153.3	151.8
85°	48.2	83.2	89.0	81.7	81.7
87.5°	20.4	33.6	29.2	21.9	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)