

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: P260962

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4301.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

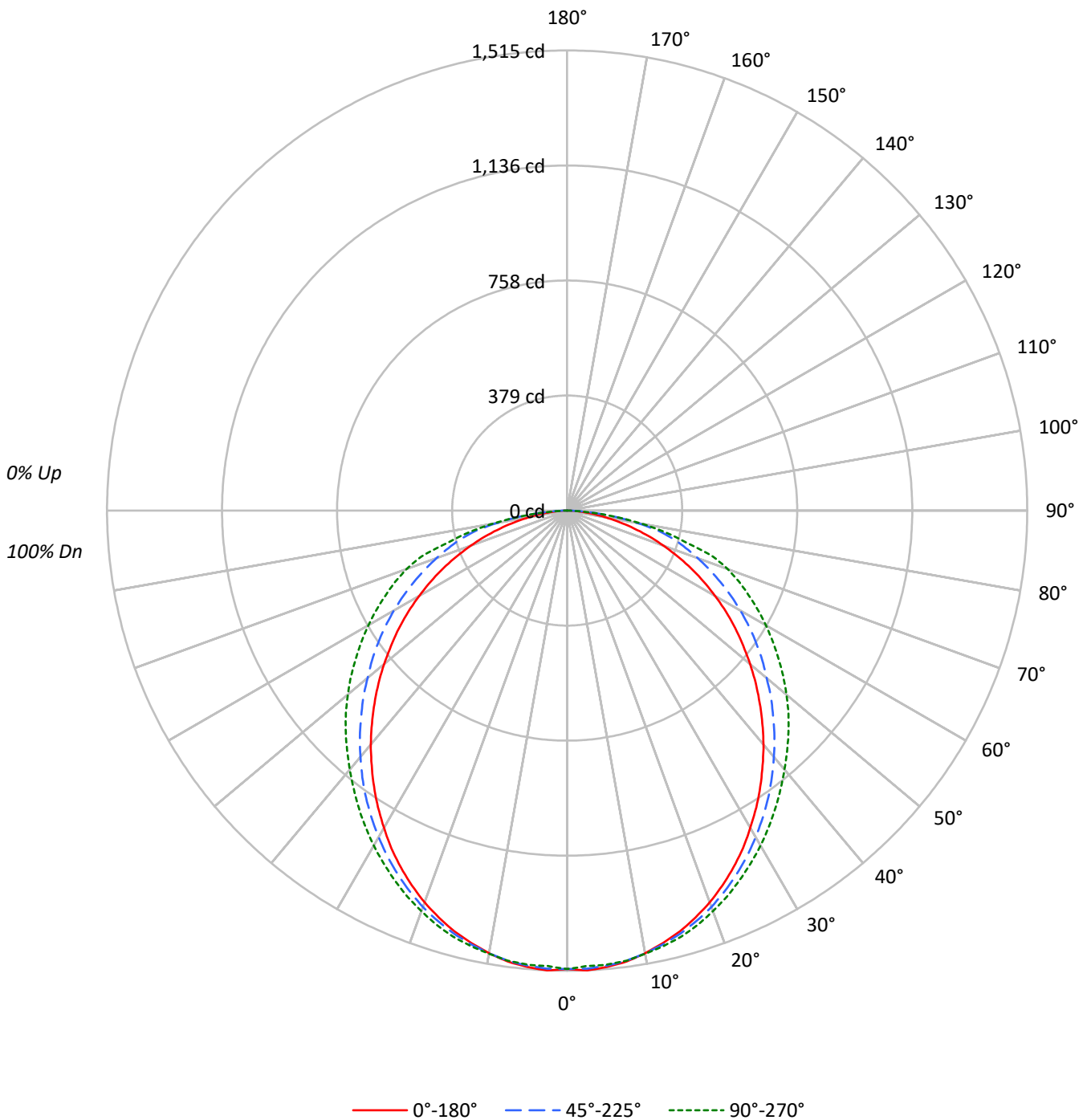
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2031	2031	2031
5°	2037	2031	2027
10°	2022	2022	2024
15°	1998	2008	2023
20°	1965	1988	2009
25°	1924	1961	1994
30°	1874	1929	1979
35°	1821	1896	1964
40°	1767	1860	1955
45°	1706	1824	1961
50°	1646	1794	1973
55°	1586	1783	1993
60°	1514	1771	2033
65°	1435	1772	2100
70°	1327	1802	2213
75°	1187	1883	2105
80°	993	1803	1929
85°	750	1386	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.3
10°-20°	406.0	9.4
20°-30°	606.9	14.1
30°-40°	720.0	16.7
40°-50°	741.0	17.2
50°-60°	679.8	15.8
60°-70°	549.6	12.8
70°-80°	356.7	8.3
80°-90°	98.4	2.3
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°	1155.5	26.9
0°-40°	1875.4	43.6
0°-60°	3296.3	76.6
0°-90°	4301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1508	1498	1504	1502	1501	143
15°	1434	1428	1442	1448	1452	404
25°	1296	1297	1321	1333	1343	596
35°	1109	1118	1154	1180	1196	693
45°	897	912	959	1004	1031	692
55°	676	696	760	822	850	604
65°	451	477	557	630	660	445
75°	228	271	362	405	405	243
85°	49	82	90	87	85	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1509.4	1509.4	1509.4	1509.4	1509.4
2.5°	1515.3	1503.5	1509.4	1508.0	1500.6
5°	1508.0	1497.6	1503.5	1502.1	1500.6
7.5°	1497.6	1487.3	1494.7	1493.2	1494.7
10°	1480.0	1471.1	1480.0	1481.4	1481.4
12.5°	1457.9	1450.5	1462.3	1465.2	1468.2
15°	1434.3	1428.4	1441.7	1447.6	1452.0
17.5°	1404.9	1400.5	1416.7	1424.0	1429.9
20°	1372.5	1371.0	1388.7	1396.0	1403.4
22.5°	1335.7	1335.7	1356.3	1365.1	1375.4
25°	1295.9	1297.4	1320.9	1332.7	1343.0
27.5°	1253.2	1254.7	1282.6	1297.4	1309.2
30°	1206.1	1212.0	1241.4	1260.6	1273.8
32.5°	1158.9	1166.3	1198.7	1220.8	1235.5
35°	1108.9	1117.7	1154.5	1179.6	1195.8
37.5°	1057.3	1067.6	1107.4	1135.4	1154.5
40°	1005.8	1017.6	1058.8	1091.2	1113.3
42.5°	951.3	964.6	1010.2	1048.5	1072.1
45°	896.8	911.5	958.7	1004.3	1030.8
47.5°	842.3	860.0	910.1	960.1	988.1
50°	786.4	804.0	857.1	914.5	942.5
52.5°	730.4	751.0	809.9	868.8	896.8
55°	675.9	696.5	759.9	821.7	849.7
57.5°	620.0	640.6	709.8	774.6	802.6
60°	562.5	586.1	658.3	724.5	755.4
62.5°	506.6	531.6	608.2	678.9	708.3
65°	450.6	477.1	556.6	630.3	659.7
67.5°	393.2	424.1	506.6	581.7	612.6
70°	337.2	371.1	458.0	533.1	562.5
72.5°	282.7	319.6	409.4	486.0	503.6
75°	228.3	271.0	362.3	405.0	405.0
77.5°	176.7	223.8	309.2	325.4	334.3
80°	128.1	179.7	232.7	251.8	248.9
82.5°	85.4	137.0	166.4	166.4	162.0
85°	48.6	82.5	89.8	86.9	85.4
87.5°	20.6	30.9	28.0	22.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)