

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: P261285

Luminaire Tested: **24CZ-LD5-45-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261285
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-LD5-45-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3728.0 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

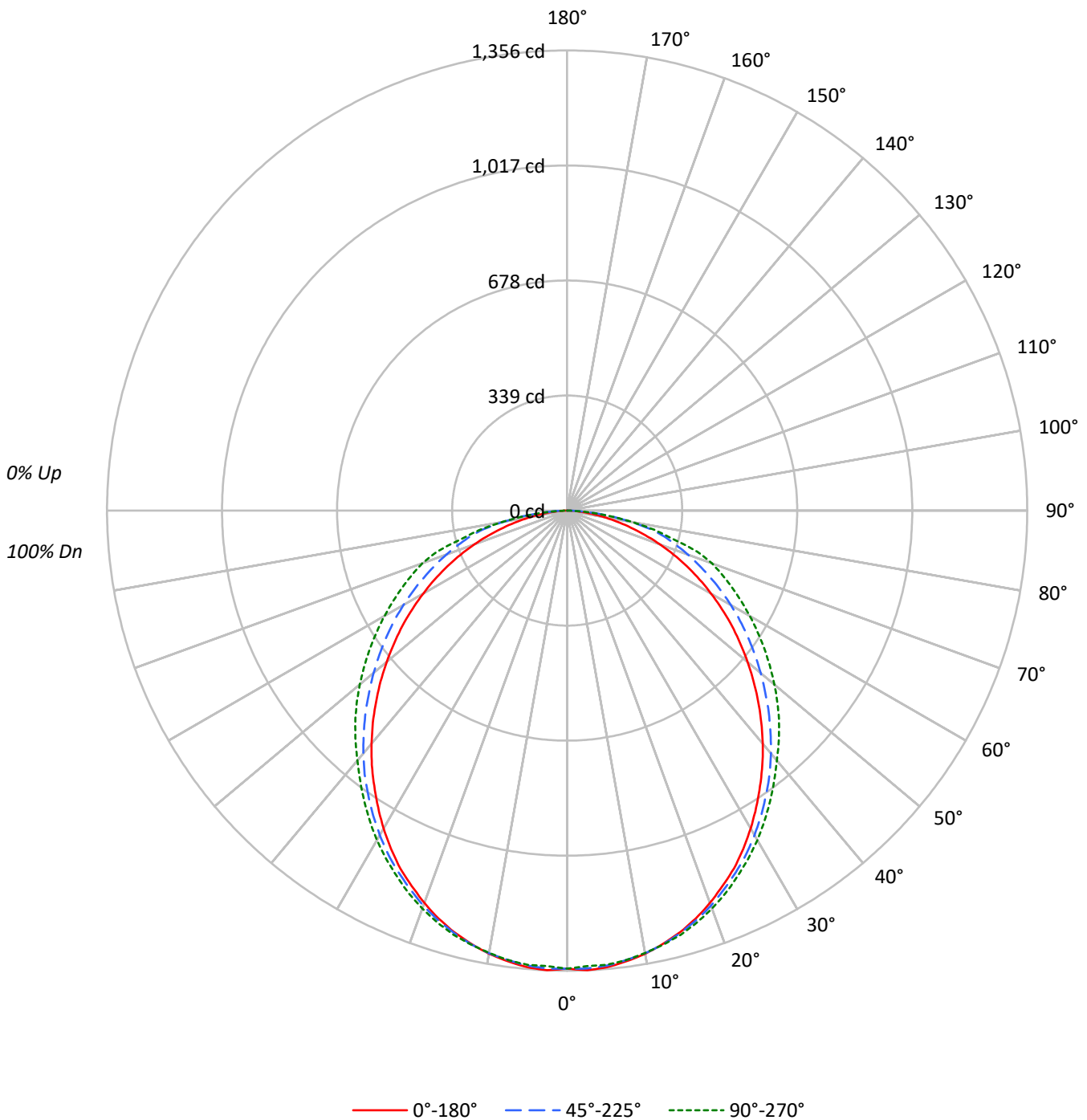
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1816	1816	1816
5°	1824	1818	1814
10°	1812	1810	1808
15°	1792	1795	1802
20°	1762	1774	1787
25°	1727	1746	1764
30°	1681	1715	1742
35°	1628	1679	1713
40°	1575	1641	1688
45°	1515	1598	1681
50°	1454	1558	1670
55°	1391	1525	1664
60°	1319	1499	1672
65°	1240	1481	1706
70°	1142	1488	1786
75°	1012	1541	1664
80°	846	1461	1499
85°	631	1169	1073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.4
10°-20°	362.9	9.7
20°-30°	540.8	14.5
30°-40°	636.6	17.1
40°-50°	646.9	17.4
50°-60°	581.7	15.6
60°-70°	459.5	12.3
70°-80°	291.5	7.8
80°-90°	80.5	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°	1031.3	27.7
0°-40°	1667.9	44.7
0°-60°	2896.5	77.7
0°-90°	3728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1351	1340	1346	1343	1343	128
15°	1286	1280	1289	1292	1294	362
25°	1164	1162	1176	1183	1188	535
35°	991	997	1022	1033	1043	620
45°	796	808	840	865	883	614
55°	593	608	650	692	710	530
65°	390	409	465	516	536	386
75°	195	228	296	322	320	207
85°	41	71	76	70	70	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.6	1349.6	1349.6	1349.6	1349.6
2.5°	1355.8	1345.9	1350.8	1348.4	1343.4
5°	1350.8	1339.7	1345.9	1343.4	1343.4
7.5°	1339.7	1331.0	1336.0	1334.7	1336.0
10°	1326.0	1317.4	1324.8	1324.8	1323.6
12.5°	1307.4	1300.0	1308.7	1308.7	1309.9
15°	1286.3	1280.1	1288.8	1292.5	1293.8
17.5°	1260.3	1254.1	1265.3	1269.0	1272.7
20°	1230.5	1228.0	1239.2	1242.9	1247.9
22.5°	1197.0	1197.0	1208.2	1213.2	1220.6
25°	1163.5	1162.3	1175.9	1183.4	1188.3
27.5°	1123.8	1125.1	1142.5	1149.9	1156.1
30°	1081.7	1084.1	1104.0	1112.7	1121.4
32.5°	1037.0	1042.0	1064.3	1074.2	1082.9
35°	991.1	997.3	1022.1	1033.3	1043.2
37.5°	945.2	953.9	980.0	991.1	1002.3
40°	896.8	904.3	934.1	947.7	961.3
42.5°	847.2	857.1	886.9	906.8	922.9
45°	796.4	807.5	839.8	864.6	883.2
47.5°	745.5	760.4	791.4	824.9	841.0
50°	694.6	709.5	744.3	781.5	797.6
52.5°	642.6	657.4	697.1	735.6	753.0
55°	592.9	607.8	650.0	692.2	709.5
57.5°	540.8	557.0	604.1	647.5	664.9
60°	490.0	506.1	557.0	602.9	621.5
62.5°	440.4	457.7	511.1	559.4	578.0
65°	389.5	409.3	465.2	516.0	535.9
67.5°	339.9	362.2	420.5	473.9	494.9
70°	290.3	316.3	378.3	432.9	454.0
72.5°	241.9	270.4	336.2	390.7	401.9
75°	194.7	228.2	296.5	322.5	320.0
77.5°	150.1	187.3	251.8	256.8	264.2
80°	109.2	150.1	188.5	198.5	193.5
82.5°	71.9	112.9	135.2	130.2	129.0
85°	40.9	70.7	75.7	69.5	69.5
87.5°	17.4	28.5	24.8	18.6	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)