

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: P261138

Luminaire Tested: **24CZ-LD5-35-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261138
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-LD5-35-S-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3742.0 lumens
Efficiency: N/A
Efficacy: 150.7 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

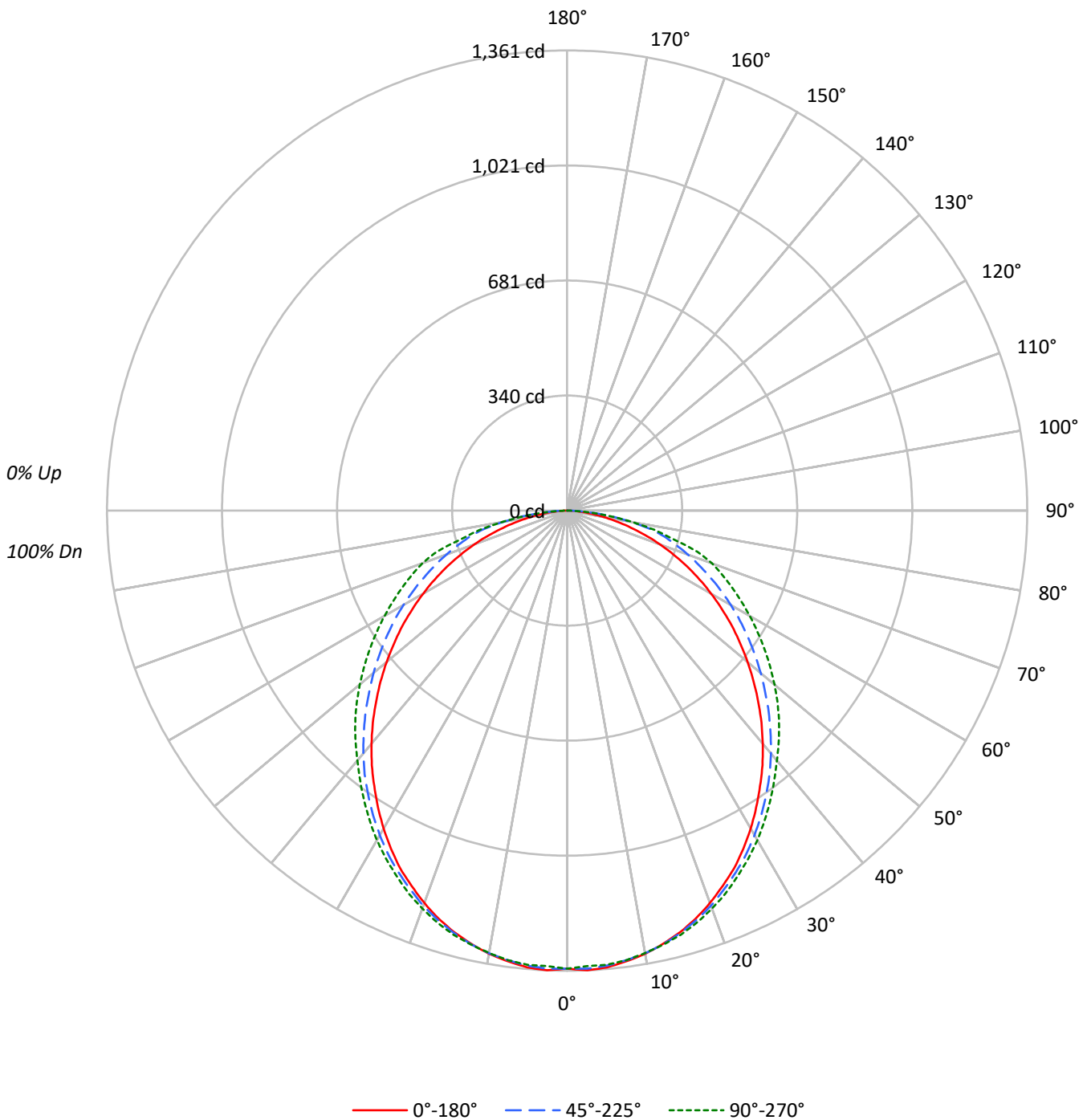
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1823	1823	1823
5°	1831	1825	1821
10°	1818	1817	1815
15°	1799	1802	1809
20°	1768	1781	1794
25°	1734	1752	1771
30°	1687	1722	1749
35°	1634	1685	1720
40°	1581	1647	1695
45°	1521	1604	1687
50°	1460	1564	1676
55°	1396	1530	1671
60°	1323	1505	1679
65°	1245	1486	1713
70°	1146	1494	1793
75°	1016	1547	1670
80°	849	1467	1505
85°	634	1173	1076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.4
10°-20°	364.3	9.7
20°-30°	542.8	14.5
30°-40°	639.0	17.1
40°-50°	649.4	17.4
50°-60°	583.8	15.6
60°-70°	461.2	12.3
70°-80°	292.6	7.8
80°-90°	80.8	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°	1035.2	27.7
0°-40°	1674.2	44.7
0°-60°	2907.4	77.7
0°-90°	3742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1356	1345	1351	1348	1348	129
15°	1291	1285	1294	1297	1299	364
25°	1168	1167	1180	1188	1193	537
35°	995	1001	1026	1037	1047	622
45°	799	811	843	868	886	617
55°	595	610	652	695	712	532
65°	391	411	467	518	538	387
75°	196	229	298	324	321	208
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°	1354.7	1354.7	1354.7	1354.7	1354.7
2.5°	1360.9	1350.9	1355.9	1353.4	1348.4
5°	1355.9	1344.7	1350.9	1348.4	1348.4
7.5°	1344.7	1336.0	1341.0	1339.7	1341.0
10°	1331.0	1322.3	1329.8	1329.8	1328.5
12.5°	1312.3	1304.9	1313.6	1313.6	1314.8
15°	1291.2	1284.9	1293.7	1297.4	1298.6
17.5°	1265.0	1258.8	1270.0	1273.7	1277.5
20°	1235.1	1232.7	1243.9	1247.6	1252.6
22.5°	1201.5	1201.5	1212.7	1217.7	1225.2
25°	1167.9	1166.7	1180.4	1187.8	1192.8
27.5°	1128.1	1129.3	1146.7	1154.2	1160.4
30°	1085.7	1088.2	1108.1	1116.9	1125.6
32.5°	1040.9	1045.9	1068.3	1078.3	1087.0
35°	994.8	1001.1	1026.0	1037.2	1047.1
37.5°	948.8	957.5	983.6	994.8	1006.0
40°	900.2	907.7	937.6	951.3	965.0
42.5°	850.4	860.4	890.2	910.2	926.4
45°	799.4	810.6	842.9	867.8	886.5
47.5°	748.3	763.2	794.4	828.0	844.2
50°	697.3	712.2	747.1	784.4	800.6
52.5°	645.0	659.9	699.7	738.3	755.8
55°	595.2	610.1	652.4	694.8	712.2
57.5°	542.9	559.1	606.4	649.9	667.4
60°	491.8	508.0	559.1	605.1	623.8
62.5°	442.0	459.4	513.0	561.5	580.2
65°	391.0	410.9	466.9	518.0	537.9
67.5°	341.2	363.6	422.1	475.6	496.8
70°	291.4	317.5	379.8	434.5	455.7
72.5°	242.8	271.4	337.4	392.2	403.4
75°	195.5	229.1	297.6	323.7	321.2
77.5°	150.7	188.0	252.8	257.7	265.2
80°	109.6	150.7	189.3	199.2	194.2
82.5°	72.2	113.3	135.7	130.7	129.5
85°	41.1	71.0	76.0	69.7	69.7
87.5°	17.4	28.6	24.9	18.7	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)