

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: P261369

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261369
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-LD5-40SE-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3741.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

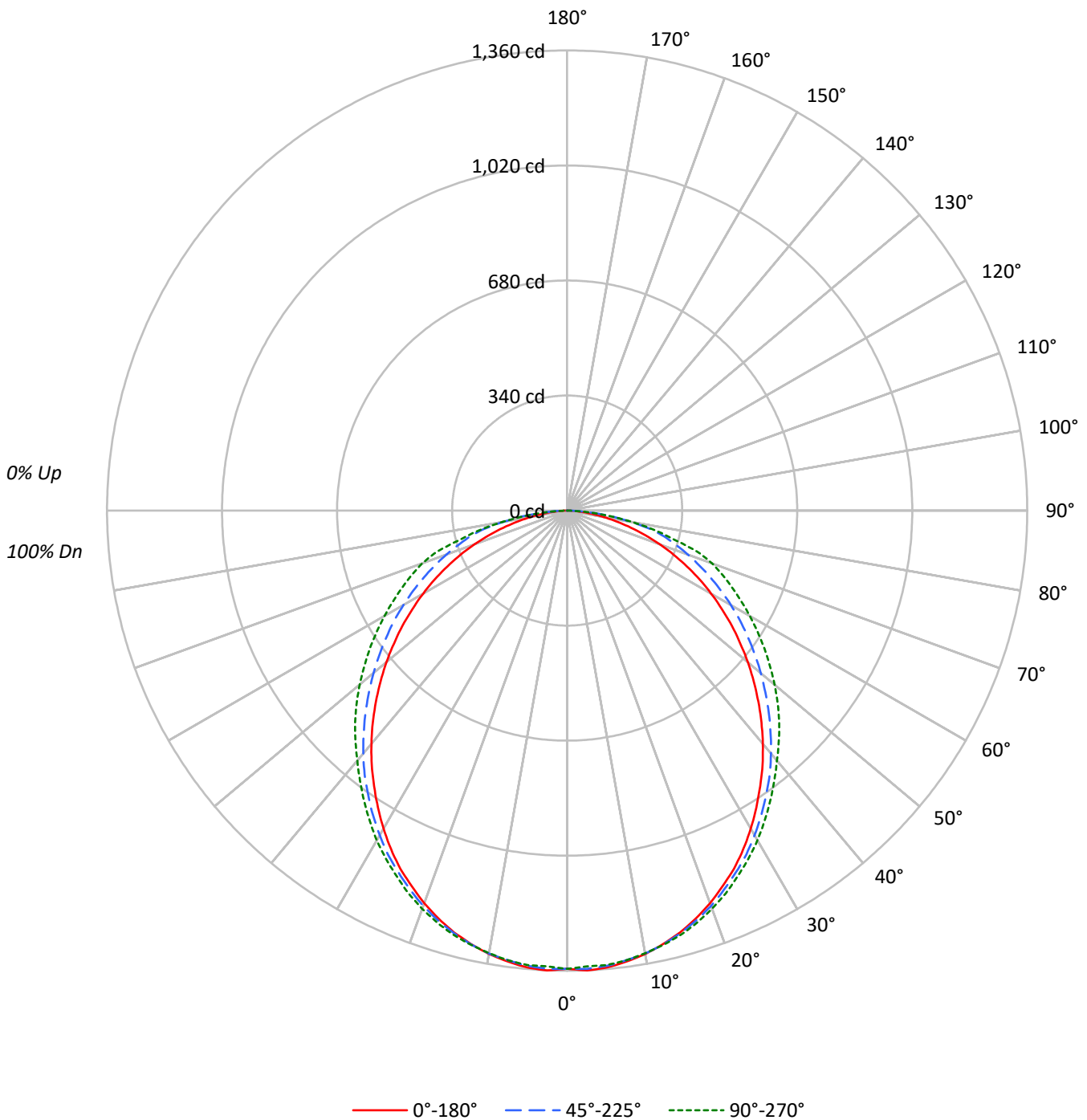
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1822	1822	1822
5°	1831	1824	1821
10°	1818	1816	1815
15°	1798	1802	1808
20°	1768	1780	1793
25°	1733	1752	1770
30°	1686	1721	1748
35°	1634	1685	1720
40°	1581	1646	1694
45°	1521	1603	1686
50°	1459	1563	1675
55°	1396	1530	1670
60°	1323	1504	1678
65°	1245	1486	1712
70°	1146	1494	1792
75°	1016	1547	1670
80°	848	1466	1505
85°	634	1172	1076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.4
10°-20°	364.2	9.7
20°-30°	542.7	14.5
30°-40°	638.8	17.1
40°-50°	649.2	17.4
50°-60°	583.7	15.6
60°-70°	461.1	12.3
70°-80°	292.5	7.8
80°-90°	80.7	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°	1034.9	27.7
0°-40°	1673.7	44.7
0°-60°	2906.6	77.7
0°-90°	3741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1356	1344	1351	1348	1348	129
15°	1291	1285	1293	1297	1298	364
25°	1168	1166	1180	1188	1192	537
35°	995	1001	1026	1037	1047	622
45°	799	810	843	868	886	617
55°	595	610	652	695	712	531
65°	391	411	467	518	538	387
75°	195	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°	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1360.5	1350.6	1355.6	1353.1	1348.1
5°	1355.6	1344.4	1350.6	1348.1	1348.1
7.5°	1344.4	1335.6	1340.6	1339.4	1340.6
10°	1330.7	1321.9	1329.4	1329.4	1328.2
12.5°	1312.0	1304.5	1313.2	1313.2	1314.5
15°	1290.8	1284.6	1293.3	1297.1	1298.3
17.5°	1264.7	1258.5	1269.7	1273.4	1277.1
20°	1234.8	1232.3	1243.5	1247.3	1252.2
22.5°	1201.2	1201.2	1212.4	1217.4	1224.9
25°	1167.6	1166.4	1180.0	1187.5	1192.5
27.5°	1127.8	1129.0	1146.4	1153.9	1160.1
30°	1085.4	1087.9	1107.8	1116.6	1125.3
32.5°	1040.6	1045.6	1068.0	1078.0	1086.7
35°	994.6	1000.8	1025.7	1036.9	1046.9
37.5°	948.5	957.2	983.4	994.6	1005.8
40°	900.0	907.4	937.3	951.0	964.7
42.5°	850.2	860.1	890.0	909.9	926.1
45°	799.1	810.3	842.7	867.6	886.3
47.5°	748.1	763.0	794.2	827.8	844.0
50°	697.1	712.0	746.9	784.2	800.4
52.5°	644.8	659.7	699.6	738.1	755.6
55°	595.0	609.9	652.3	694.6	712.0
57.5°	542.7	558.9	606.2	649.8	667.2
60°	491.7	507.9	558.9	605.0	623.6
62.5°	441.9	459.3	512.8	561.4	580.1
65°	390.9	410.8	466.8	517.8	537.7
67.5°	341.1	363.5	422.0	475.5	496.7
70°	291.3	317.4	379.7	434.4	455.6
72.5°	242.7	271.4	337.3	392.1	403.3
75°	195.4	229.0	297.5	323.6	321.2
77.5°	150.6	188.0	252.7	257.7	265.1
80°	109.5	150.6	189.2	199.2	194.2
82.5°	72.2	113.3	135.7	130.7	129.5
85°	41.1	71.0	75.9	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)