

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: P261227

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261227
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-LD5-35SE-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3773.0 lumens
Efficiency: N/A
Efficacy: 140.9 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

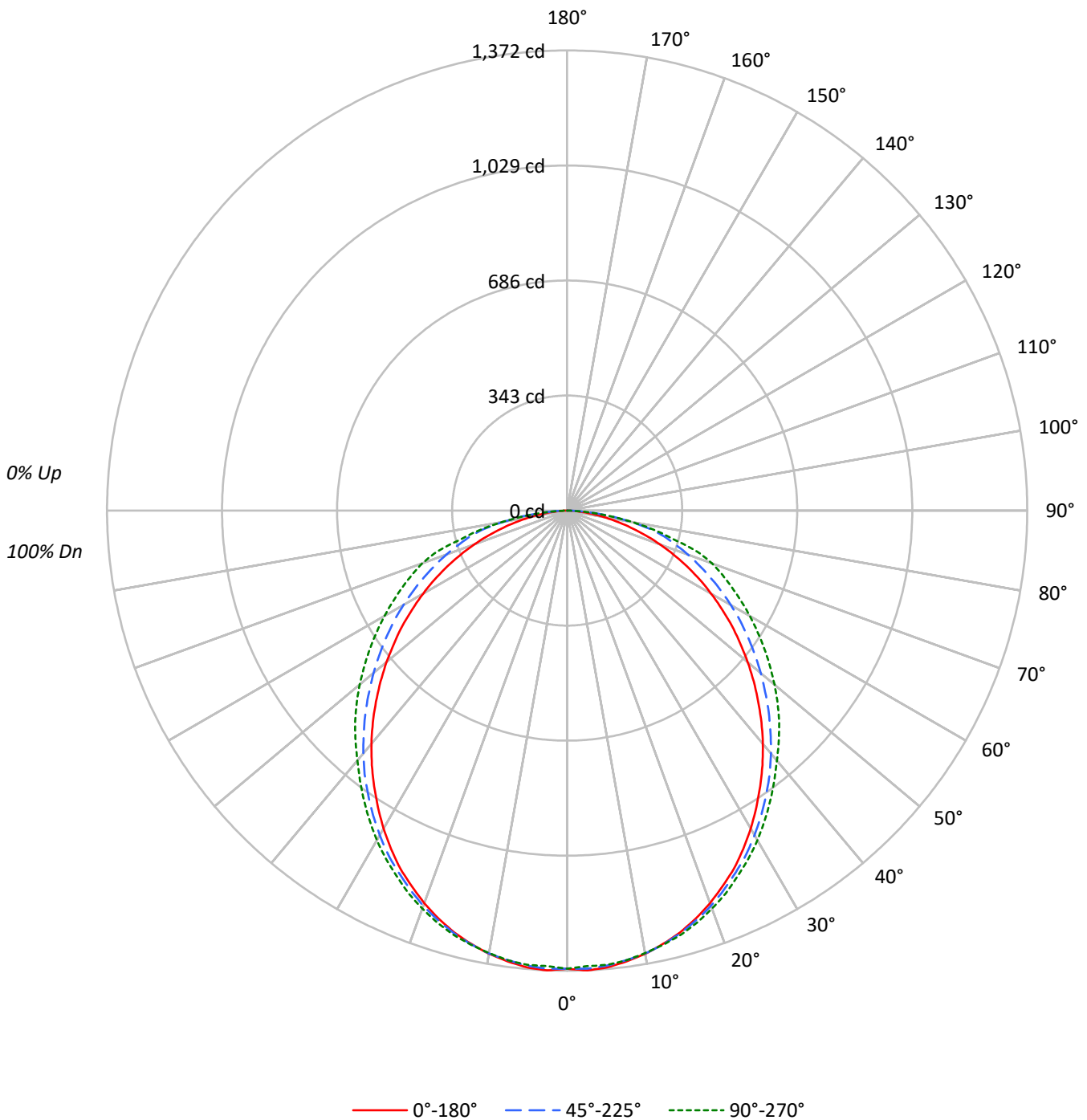
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1838	1838	1838
5°	1847	1840	1836
10°	1834	1832	1830
15°	1813	1817	1824
20°	1783	1796	1808
25°	1748	1767	1786
30°	1701	1736	1763
35°	1648	1699	1734
40°	1594	1660	1709
45°	1534	1617	1701
50°	1472	1577	1690
55°	1408	1543	1685
60°	1334	1517	1693
65°	1255	1499	1727
70°	1156	1506	1808
75°	1025	1560	1684
80°	856	1478	1517
85°	639	1183	1085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	3.4
10°-20°	367.3	9.7
20°-30°	547.3	14.5
30°-40°	644.3	17.1
40°-50°	654.8	17.4
50°-60°	588.7	15.6
60°-70°	465.1	12.3
70°-80°	295.0	7.8
80°-90°	81.4	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°	1043.8	27.7
0°-40°	1688.1	44.7
0°-60°	2931.5	77.7
0°-90°	3773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1367	1356	1362	1360	1360	130
15°	1302	1296	1304	1308	1309	367
25°	1178	1176	1190	1198	1203	541
35°	1003	1009	1034	1046	1056	628
45°	806	817	850	875	894	622
55°	600	615	658	700	718	536
65°	394	414	471	522	542	390
75°	197	231	300	326	324	210
85°	41	72	77	70	70	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.9	1365.9	1365.9	1365.9	1365.9
2.5°	1372.2	1362.1	1367.2	1364.6	1359.6
5°	1367.2	1355.9	1362.1	1359.6	1359.6
7.5°	1355.9	1347.1	1352.1	1350.8	1352.1
10°	1342.0	1333.3	1340.8	1340.8	1339.5
12.5°	1323.2	1315.7	1324.5	1324.5	1325.7
15°	1301.9	1295.6	1304.4	1308.1	1309.4
17.5°	1275.5	1269.2	1280.5	1284.3	1288.1
20°	1245.4	1242.9	1254.2	1257.9	1263.0
22.5°	1211.5	1211.5	1222.8	1227.8	1235.3
25°	1177.6	1176.3	1190.1	1197.7	1202.7
27.5°	1137.4	1138.7	1156.2	1163.8	1170.1
30°	1094.7	1097.2	1117.3	1126.1	1134.9
32.5°	1049.5	1054.6	1077.1	1087.2	1096.0
35°	1003.1	1009.4	1034.5	1045.8	1055.8
37.5°	956.6	965.4	991.8	1003.1	1014.4
40°	907.7	915.2	945.3	959.1	972.9
42.5°	857.5	867.5	897.6	917.7	934.0
45°	806.0	817.3	849.9	875.0	893.9
47.5°	754.5	769.6	801.0	834.9	851.2
50°	703.0	718.1	753.3	790.9	807.2
52.5°	650.3	665.4	705.5	744.5	762.0
55°	600.1	615.2	657.8	700.5	718.1
57.5°	547.4	563.7	611.4	655.3	672.9
60°	495.9	512.2	563.7	610.1	629.0
62.5°	445.7	463.2	517.2	566.2	585.0
65°	394.2	414.3	470.8	522.3	542.3
67.5°	344.0	366.6	425.6	479.6	500.9
70°	293.8	320.1	382.9	438.1	459.5
72.5°	244.8	273.7	340.2	395.5	406.8
75°	197.1	231.0	300.0	326.4	323.9
77.5°	151.9	189.6	254.8	259.9	267.4
80°	110.5	151.9	190.8	200.9	195.8
82.5°	72.8	114.2	136.8	131.8	130.6
85°	41.4	71.6	76.6	70.3	70.3
87.5°	17.6	28.9	25.1	18.8	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)