

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: P260981

Luminaire Tested: **24CZ-LD5-35-S-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260981
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-L83050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3805.0 lumens
Efficiency: N/A
Efficacy: 150.0 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

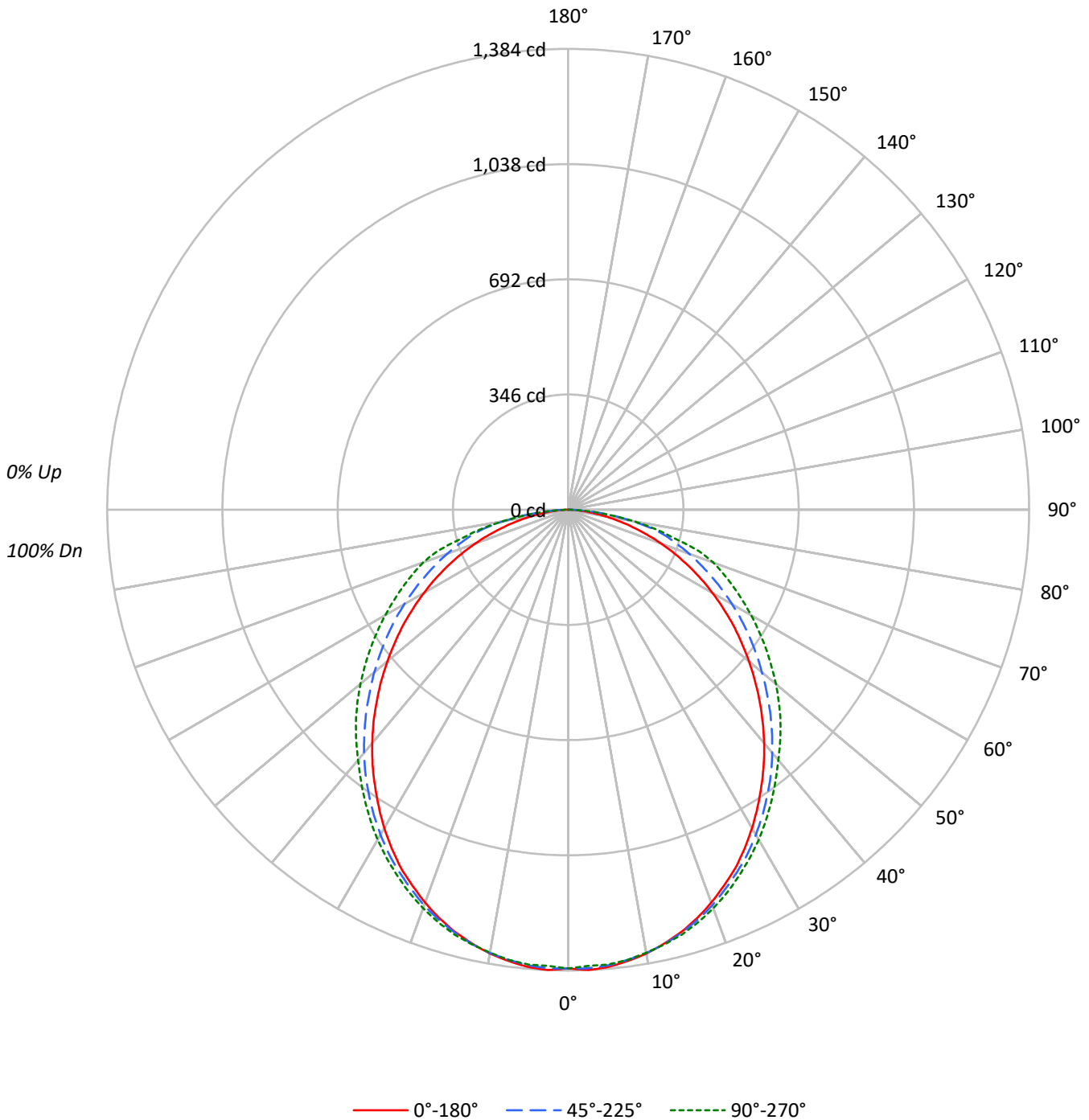
Input Watts (W): 25.36482
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1853	1853	1853
5°	1862	1855	1852
10°	1849	1847	1846
15°	1829	1832	1839
20°	1798	1811	1824
25°	1763	1782	1801
30°	1715	1751	1778
35°	1662	1713	1749
40°	1608	1674	1723
45°	1547	1631	1715
50°	1484	1590	1704
55°	1420	1556	1699
60°	1346	1530	1707
65°	1266	1512	1741
70°	1166	1519	1823
75°	1033	1573	1698
80°	863	1491	1530
85°	645	1192	1095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.4
10°-20°	370.4	9.7
20°-30°	552.0	14.5
30°-40°	649.8	17.1
40°-50°	660.3	17.4
50°-60°	593.7	15.6
60°-70°	469.0	12.3
70°-80°	297.5	7.8
80°-90°	82.1	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°	1052.6	27.7
0°-40°	1702.4	44.7
0°-60°	2956.3	77.7
0°-90°	3805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1379	1367	1374	1371	1371	131
15°	1313	1307	1315	1319	1320	370
25°	1188	1186	1200	1208	1213	546
35°	1012	1018	1043	1055	1065	633
45°	813	824	857	882	901	627
55°	605	620	663	706	724	540
65°	398	418	475	527	547	394
75°	199	233	303	329	327	212
85°	42	72	77	71	71	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.5	1377.5	1377.5	1377.5	1377.5
2.5°	1383.8	1373.7	1378.7	1376.2	1371.1
5°	1378.7	1367.4	1373.7	1371.1	1371.1
7.5°	1367.4	1358.5	1363.6	1362.3	1363.6
10°	1353.4	1344.6	1352.2	1352.2	1350.9
12.5°	1334.4	1326.8	1335.7	1335.7	1337.0
15°	1312.9	1306.6	1315.4	1319.2	1320.5
17.5°	1286.3	1280.0	1291.4	1295.2	1299.0
20°	1255.9	1253.4	1264.8	1268.6	1273.7
22.5°	1221.8	1221.8	1233.1	1238.2	1245.8
25°	1187.6	1186.3	1200.2	1207.8	1212.9
27.5°	1147.1	1148.3	1166.0	1173.6	1180.0
30°	1104.0	1106.5	1126.8	1135.7	1144.5
32.5°	1058.4	1063.5	1086.3	1096.4	1105.3
35°	1011.6	1017.9	1043.2	1054.6	1064.8
37.5°	964.7	973.6	1000.2	1011.6	1023.0
40°	915.4	923.0	953.3	967.3	981.2
42.5°	864.7	874.9	905.2	925.5	942.0
45°	812.8	824.2	857.1	882.4	901.4
47.5°	760.9	776.1	807.8	841.9	858.4
50°	709.0	724.2	759.6	797.6	814.1
52.5°	655.8	671.0	711.5	750.8	768.5
55°	605.2	620.4	663.4	706.5	724.2
57.5°	552.0	568.5	616.6	660.9	678.6
60°	500.1	516.6	568.5	615.3	634.3
62.5°	449.5	467.2	521.6	571.0	590.0
65°	397.5	417.8	474.8	526.7	546.9
67.5°	346.9	369.7	429.2	483.6	505.2
70°	296.3	322.8	386.2	441.9	463.4
72.5°	246.9	276.0	343.1	398.8	410.2
75°	198.8	233.0	302.6	329.2	326.6
77.5°	153.2	191.2	257.0	262.1	269.7
80°	111.4	153.2	192.4	202.6	197.5
82.5°	73.4	115.2	138.0	132.9	131.7
85°	41.8	72.2	77.2	70.9	70.9
87.5°	17.7	29.1	25.3	19.0	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)