

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: P260964

Luminaire Tested: **24CZ-LD5-50SE-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4076.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

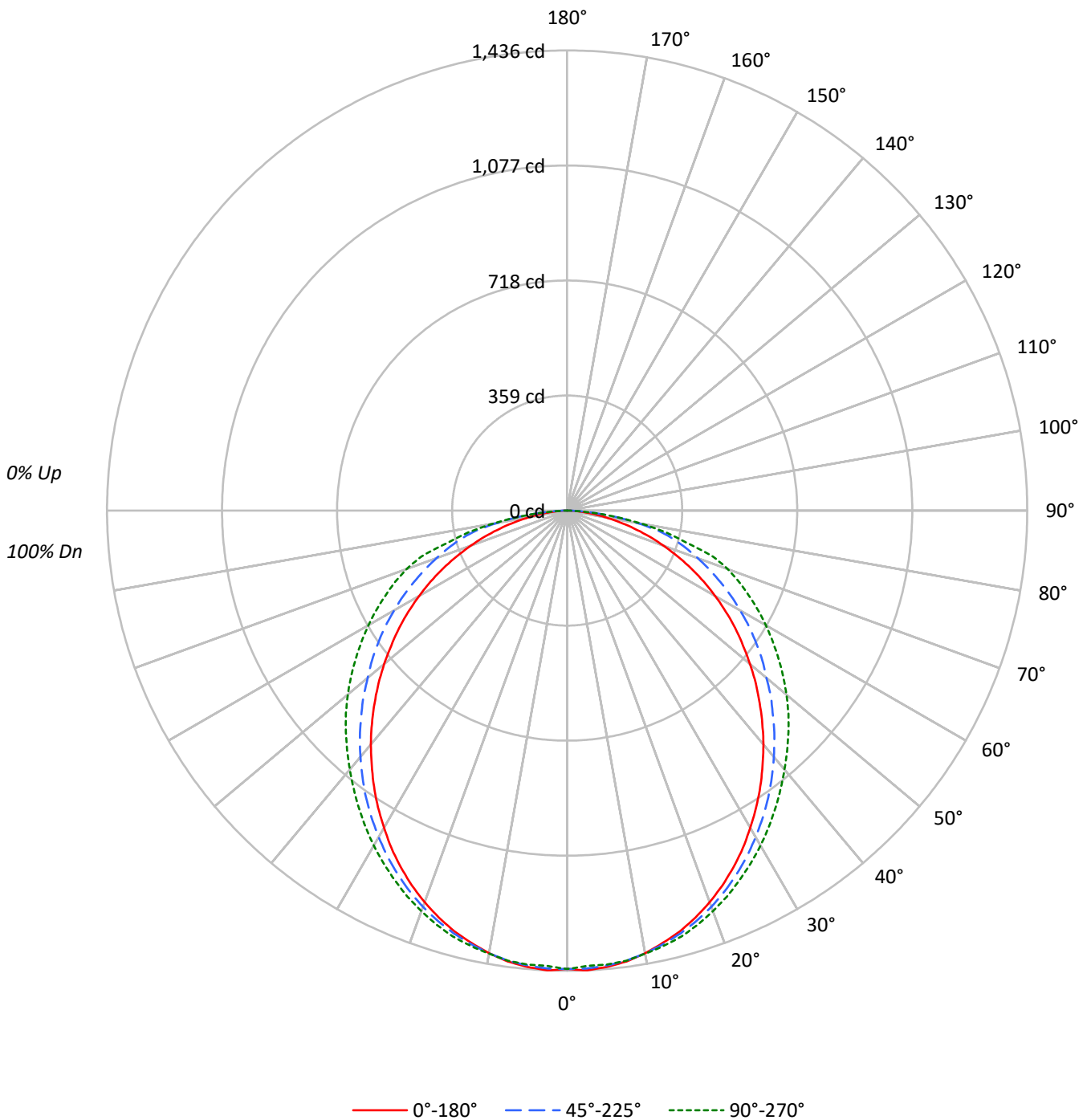
Input Watts (W): 39.339
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1925	1925	1925
5°	1930	1925	1921
10°	1916	1916	1918
15°	1893	1903	1917
20°	1862	1884	1904
25°	1823	1858	1890
30°	1776	1828	1876
35°	1726	1797	1861
40°	1674	1762	1853
45°	1617	1729	1859
50°	1560	1700	1870
55°	1503	1689	1889
60°	1435	1679	1926
65°	1359	1679	1990
70°	1257	1707	2097
75°	1124	1785	1995
80°	941	1709	1828
85°	712	1314	1249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.3
10°-20°	384.7	9.4
20°-30°	575.1	14.1
30°-40°	682.3	16.7
40°-50°	702.3	17.2
50°-60°	644.2	15.8
60°-70°	520.9	12.8
70°-80°	338.1	8.3
80°-90°	93.2	2.3
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°	1095.0	26.9
0°-40°	1777.3	43.6
0°-60°	3123.8	76.6
0°-90°	4076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1429	1419	1425	1424	1422	136
15°	1359	1354	1366	1372	1376	383
25°	1228	1230	1252	1263	1273	565
35°	1051	1059	1094	1118	1133	657
45°	850	864	908	952	977	656
55°	641	660	720	779	805	572
65°	427	452	528	597	625	422
75°	216	257	343	384	384	230
85°	46	78	85	82	81	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.5	1430.5	1430.5	1430.5	1430.5
2.5°	1436.0	1424.9	1430.5	1429.1	1422.1
5°	1429.1	1419.3	1424.9	1423.5	1422.1
7.5°	1419.3	1409.5	1416.5	1415.1	1416.5
10°	1402.6	1394.2	1402.6	1403.9	1403.9
12.5°	1381.6	1374.6	1385.8	1388.6	1391.4
15°	1359.3	1353.7	1366.3	1371.8	1376.0
17.5°	1331.4	1327.2	1342.5	1349.5	1355.1
20°	1300.7	1299.3	1316.0	1323.0	1330.0
22.5°	1265.8	1265.8	1285.3	1293.7	1303.5
25°	1228.1	1229.5	1251.8	1263.0	1272.8
27.5°	1187.6	1189.0	1215.5	1229.5	1240.7
30°	1143.0	1148.6	1176.5	1194.6	1207.2
32.5°	1098.3	1105.3	1136.0	1156.9	1170.9
35°	1050.9	1059.2	1094.1	1117.9	1133.2
37.5°	1002.0	1011.8	1049.5	1076.0	1094.1
40°	953.2	964.3	1003.4	1034.1	1055.1
42.5°	901.5	914.1	957.4	993.6	1016.0
45°	849.9	863.9	908.5	951.8	976.9
47.5°	798.3	815.0	862.5	909.9	936.4
50°	745.2	762.0	812.2	866.7	893.2
52.5°	692.2	711.7	767.6	823.4	849.9
55°	640.6	660.1	720.1	778.7	805.2
57.5°	587.5	607.1	672.7	734.1	760.6
60°	533.1	555.4	623.8	686.6	715.9
62.5°	480.1	503.8	576.4	643.4	671.3
65°	427.0	452.2	527.5	597.3	625.2
67.5°	372.6	401.9	480.1	551.3	580.6
70°	319.6	351.7	434.0	505.2	533.1
72.5°	268.0	302.8	388.0	460.5	477.3
75°	216.3	256.8	343.3	383.8	383.8
77.5°	167.5	212.1	293.1	308.4	316.8
80°	121.4	170.3	220.5	238.6	235.9
82.5°	80.9	129.8	157.7	157.7	153.5
85°	46.1	78.2	85.1	82.3	80.9
87.5°	19.5	29.3	26.5	20.9	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)