

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: P260563

Luminaire Tested: **24CZ-LD5-40-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260563
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-LD5-40-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.0 lumens
Efficiency: N/A
Efficacy: 144.1 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

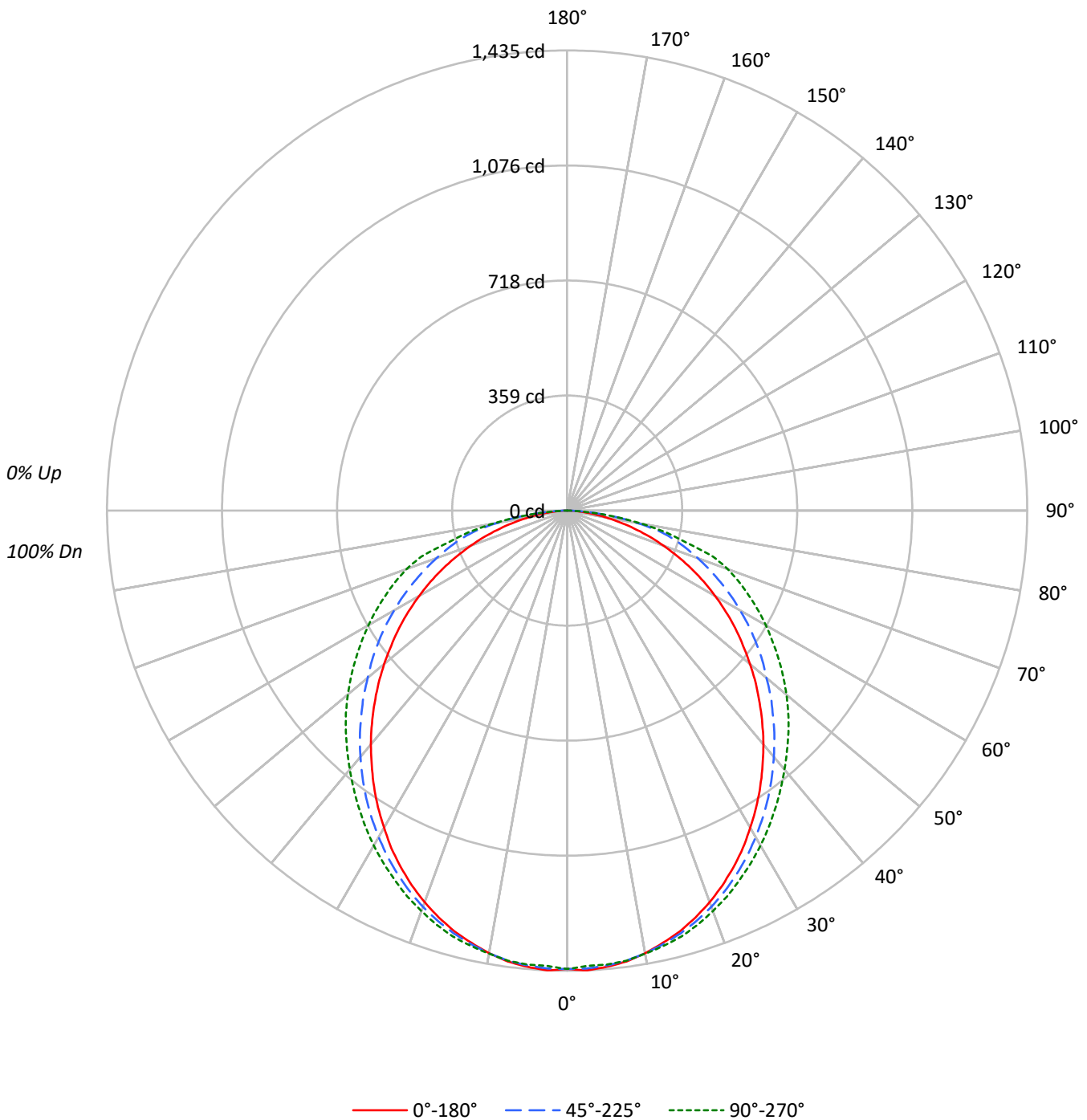
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1923	1923	1923
5°	1929	1923	1919
10°	1915	1915	1917
15°	1892	1902	1915
20°	1861	1883	1903
25°	1822	1857	1888
30°	1774	1826	1874
35°	1725	1796	1860
40°	1673	1761	1852
45°	1616	1728	1858
50°	1559	1699	1868
55°	1502	1688	1888
60°	1433	1678	1925
65°	1358	1678	1989
70°	1257	1706	2096
75°	1124	1784	1994
80°	940	1707	1826
85°	710	1314	1249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.3
10°-20°	384.4	9.4
20°-30°	574.7	14.1
30°-40°	681.8	16.7
40°-50°	701.7	17.2
50°-60°	643.8	15.8
60°-70°	520.5	12.8
70°-80°	337.8	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°	1094.2	26.9
0°-40°	1776.0	43.6
0°-60°	3121.5	76.6
0°-90°	4073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1428	1418	1424	1422	1421	135
15°	1358	1353	1365	1371	1375	383
25°	1227	1229	1251	1262	1272	565
35°	1050	1058	1093	1117	1132	657
45°	849	863	908	951	976	655
55°	640	660	720	778	805	572
65°	427	452	527	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°	1429.4	1429.4	1429.4	1429.4	1429.4
2.5°	1435.0	1423.8	1429.4	1428.0	1421.0
5°	1428.0	1418.3	1423.8	1422.4	1421.0
7.5°	1418.3	1408.5	1415.5	1414.1	1415.5
10°	1401.5	1393.2	1401.5	1402.9	1402.9
12.5°	1380.6	1373.6	1384.8	1387.6	1390.4
15°	1358.3	1352.7	1365.3	1370.8	1375.0
17.5°	1330.4	1326.2	1341.6	1348.5	1354.1
20°	1299.7	1298.3	1315.1	1322.0	1329.0
22.5°	1264.9	1264.9	1284.4	1292.7	1302.5
25°	1227.2	1228.6	1250.9	1262.1	1271.8
27.5°	1186.8	1188.2	1214.7	1228.6	1239.8
30°	1142.1	1147.7	1175.6	1193.7	1206.3
32.5°	1097.5	1104.5	1135.2	1156.1	1170.0
35°	1050.1	1058.5	1093.3	1117.0	1132.4
37.5°	1001.3	1011.0	1048.7	1075.2	1093.3
40°	952.5	963.6	1002.7	1033.4	1054.3
42.5°	900.9	913.4	956.7	992.9	1015.2
45°	849.3	863.2	907.9	951.1	976.2
47.5°	797.7	814.4	861.8	909.2	935.7
50°	744.7	761.4	811.6	866.0	892.5
52.5°	691.7	711.2	767.0	822.8	849.3
55°	640.1	659.6	719.6	778.2	804.7
57.5°	587.1	606.6	672.2	733.5	760.0
60°	532.7	555.0	623.4	686.1	715.4
62.5°	479.7	503.4	575.9	642.9	670.8
65°	426.7	451.8	527.1	596.9	624.8
67.5°	372.3	401.6	479.7	550.8	580.1
70°	319.4	351.4	433.7	504.8	532.7
72.5°	267.8	302.6	387.7	460.2	476.9
75°	216.2	256.6	343.1	383.5	383.5
77.5°	167.3	212.0	292.9	308.2	316.6
80°	121.3	170.1	220.3	238.5	235.7
82.5°	80.9	129.7	157.6	157.6	153.4
85°	46.0	78.1	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)