

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: P260613

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260613
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-LD5-40SE-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4048.0 lumens
Efficiency: N/A
Efficacy: 133.1 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

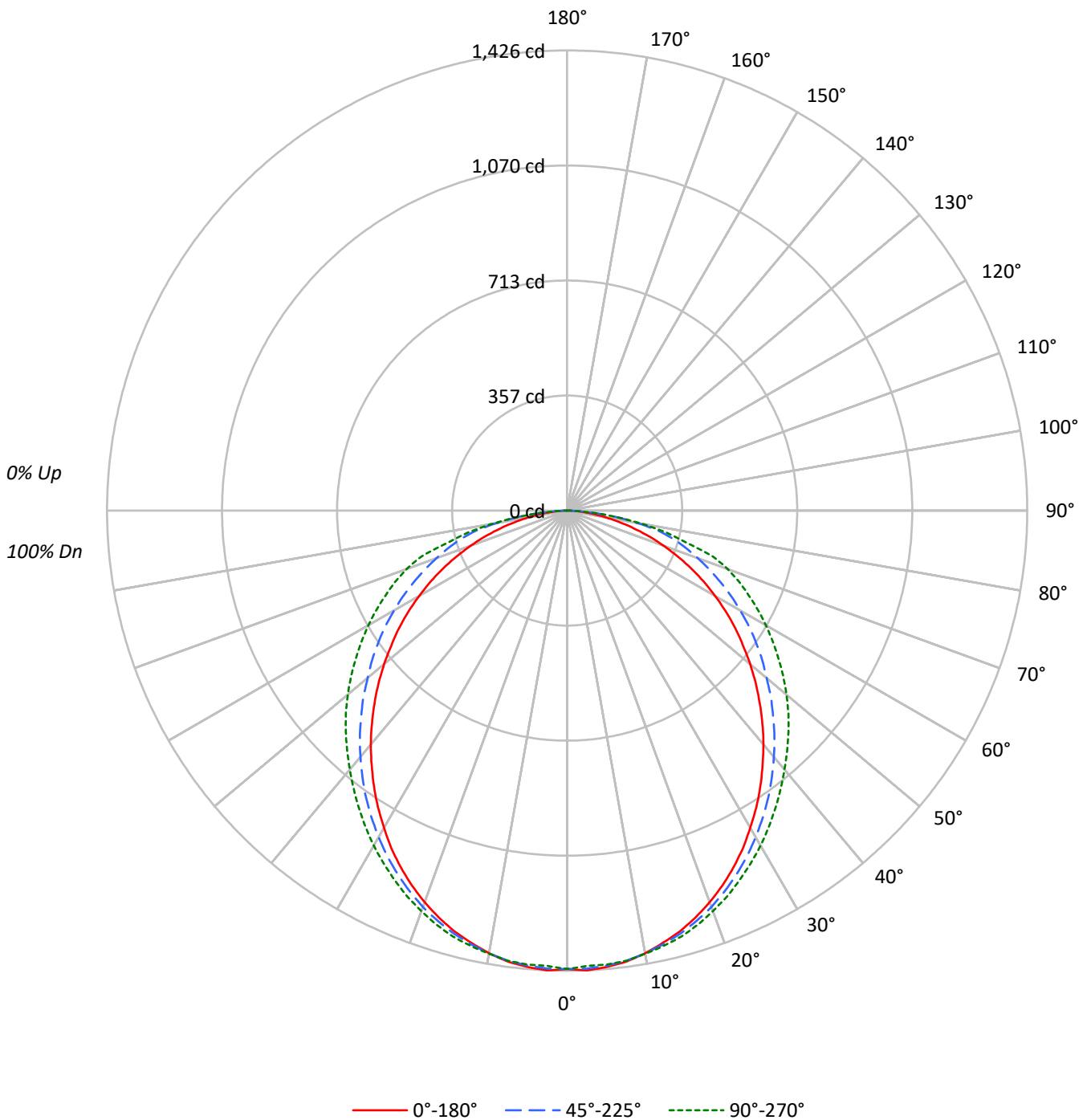
Input Watts (W): 30.411
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1911	1911	1911
5°	1917	1911	1907
10°	1903	1903	1905
15°	1880	1890	1904
20°	1850	1871	1891
25°	1811	1846	1877
30°	1764	1815	1863
35°	1714	1785	1849
40°	1663	1750	1840
45°	1606	1717	1846
50°	1549	1688	1857
55°	1492	1678	1876
60°	1425	1667	1913
65°	1350	1668	1977
70°	1249	1696	2083
75°	1117	1773	1981
80°	934	1697	1815
85°	706	1304	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.3
10°-20°	382.1	9.4
20°-30°	571.2	14.1
30°-40°	677.6	16.7
40°-50°	697.4	17.2
50°-60°	639.8	15.8
60°-70°	517.3	12.8
70°-80°	335.7	8.3
80°-90°	92.6	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°	1087.5	26.9
0°-40°	1765.1	43.6
0°-60°	3102.4	76.6
0°-90°	4048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1419	1410	1415	1414	1412	135
15°	1350	1344	1357	1362	1367	380
25°	1220	1221	1243	1254	1264	561
35°	1044	1052	1087	1110	1125	653
45°	844	858	902	945	970	651
55°	636	656	715	773	800	568
65°	424	449	524	593	621	419
75°	215	255	341	381	381	228
85°	46	78	84	82	80	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1420.6	1420.6	1420.6	1420.6	1420.6
2.5°	1426.2	1415.1	1420.6	1419.3	1412.3
5°	1419.3	1409.5	1415.1	1413.7	1412.3
7.5°	1409.5	1399.8	1406.8	1405.4	1406.8
10°	1392.9	1384.6	1392.9	1394.3	1394.3
12.5°	1372.1	1365.2	1376.3	1379.1	1381.8
15°	1350.0	1344.4	1356.9	1362.4	1366.6
17.5°	1322.2	1318.1	1333.3	1340.3	1345.8
20°	1291.7	1290.4	1307.0	1313.9	1320.8
22.5°	1257.1	1257.1	1276.5	1284.8	1294.5
25°	1219.7	1221.1	1243.2	1254.3	1264.0
27.5°	1179.5	1180.9	1207.2	1221.1	1232.1
30°	1135.1	1140.7	1168.4	1186.4	1198.9
32.5°	1090.8	1097.7	1128.2	1149.0	1162.8
35°	1043.6	1052.0	1086.6	1110.2	1125.4
37.5°	995.1	1004.8	1042.3	1068.6	1086.6
40°	946.6	957.7	996.5	1027.0	1047.8
42.5°	895.3	907.8	950.8	986.8	1009.0
45°	844.1	857.9	902.3	945.2	970.2
47.5°	792.8	809.4	856.5	903.7	930.0
50°	740.1	756.7	806.6	860.7	887.0
52.5°	687.4	706.9	762.3	817.7	844.1
55°	636.2	655.6	715.2	773.4	799.7
57.5°	583.5	602.9	668.0	729.0	755.4
60°	529.4	551.6	619.5	681.9	711.0
62.5°	476.8	500.3	572.4	638.9	666.7
65°	424.1	449.1	523.9	593.2	620.9
67.5°	370.1	399.2	476.8	547.5	576.6
70°	317.4	349.3	431.0	501.7	529.4
72.5°	266.1	300.8	385.3	457.4	474.0
75°	214.8	255.0	341.0	381.1	381.1
77.5°	166.3	210.7	291.1	306.3	314.6
80°	120.6	169.1	219.0	237.0	234.2
82.5°	80.4	128.9	156.6	156.6	152.5
85°	45.7	77.6	84.5	81.8	80.4
87.5°	19.4	29.1	26.3	20.8	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)