

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: P261238

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261238
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-LD5-40SE-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4316.0 lumens
Efficiency: N/A
Efficacy: 135.7 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

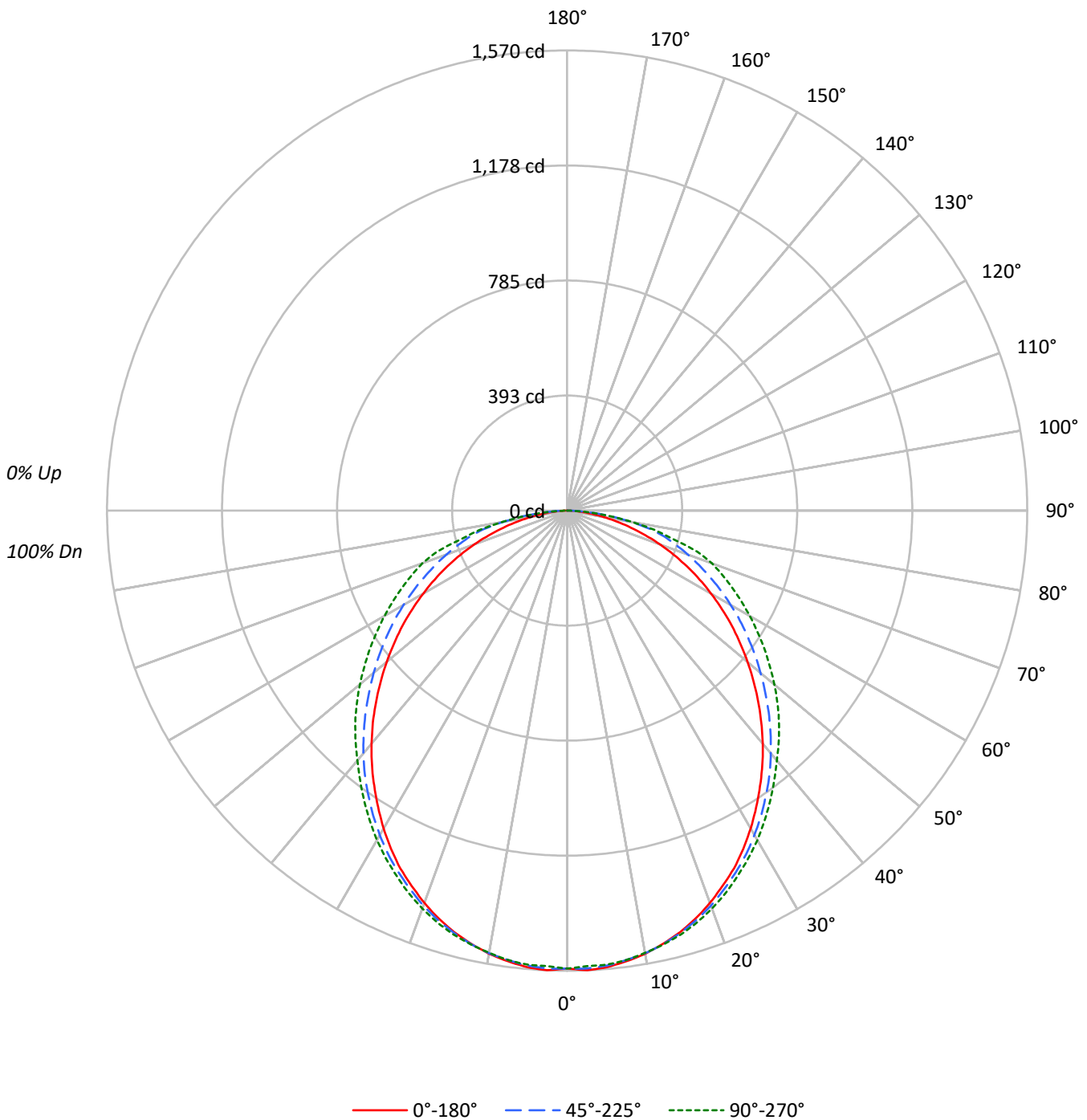
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2102	2102	2102
5°	2112	2105	2101
10°	2097	2095	2093
15°	2074	2078	2086
20°	2040	2054	2069
25°	2000	2021	2042
30°	1946	1986	2017
35°	1885	1944	1984
40°	1824	1899	1955
45°	1754	1850	1946
50°	1683	1804	1933
55°	1610	1765	1927
60°	1527	1735	1936
65°	1436	1714	1975
70°	1322	1723	2068
75°	1172	1784	1926
80°	979	1691	1736
85°	732	1352	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	3.4
10°-20°	420.1	9.7
20°-30°	626.1	14.5
30°-40°	737.0	17.1
40°-50°	749.0	17.4
50°-60°	673.4	15.6
60°-70°	532.0	12.3
70°-80°	337.5	7.8
80°-90°	93.1	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°	1194.0	27.7
0°-40°	1931.0	44.7
0°-60°	3353.4	77.7
0°-90°	4316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1564	1551	1558	1555	1555	148
15°	1489	1482	1492	1496	1498	419
25°	1347	1346	1361	1370	1376	619
35°	1147	1155	1183	1196	1208	718
45°	922	935	972	1001	1022	711
55°	686	704	752	801	821	613
65°	451	474	538	597	620	447
75°	226	264	343	373	370	240
85°	47	82	88	80	80	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1562.5	1562.5	1562.5	1562.5	1562.5
2.5°	1569.7	1558.2	1563.9	1561.0	1555.3
5°	1563.9	1551.0	1558.2	1555.3	1555.3
7.5°	1551.0	1540.9	1546.7	1545.2	1546.7
10°	1535.2	1525.1	1533.7	1533.7	1532.3
12.5°	1513.6	1505.0	1515.1	1515.1	1516.5
15°	1489.2	1482.1	1492.1	1496.4	1497.8
17.5°	1459.1	1451.9	1464.8	1469.1	1473.4
20°	1424.6	1421.7	1434.7	1439.0	1444.7
22.5°	1385.8	1385.8	1398.8	1404.5	1413.1
25°	1347.1	1345.6	1361.4	1370.0	1375.8
27.5°	1301.1	1302.5	1322.6	1331.3	1338.4
30°	1252.3	1255.1	1278.1	1288.2	1298.2
32.5°	1200.6	1206.3	1232.2	1243.7	1253.7
35°	1147.4	1154.6	1183.3	1196.3	1207.8
37.5°	1094.3	1104.4	1134.5	1147.4	1160.4
40°	1038.3	1046.9	1081.4	1097.2	1113.0
42.5°	980.9	992.3	1026.8	1049.8	1068.5
45°	922.0	934.9	972.2	1001.0	1022.5
47.5°	863.1	880.3	916.2	955.0	973.7
50°	804.2	821.4	861.7	904.7	923.4
52.5°	743.9	761.1	807.1	851.6	871.7
55°	686.5	703.7	752.5	801.3	821.4
57.5°	626.1	644.8	699.4	749.6	769.7
60°	567.3	585.9	644.8	697.9	719.5
62.5°	509.8	529.9	591.7	647.7	669.2
65°	450.9	473.9	538.5	597.4	620.4
67.5°	393.5	419.3	486.8	548.6	573.0
70°	336.0	366.2	438.0	501.2	525.6
72.5°	280.0	313.1	389.2	452.4	465.3
75°	225.5	264.2	343.2	373.4	370.5
77.5°	173.8	216.9	291.5	297.3	305.9
80°	126.4	173.8	218.3	229.8	224.0
82.5°	83.3	130.7	156.5	150.8	149.4
85°	47.4	81.9	87.6	80.4	80.4
87.5°	20.1	33.0	28.7	21.5	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)