

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: P260815

Luminaire Tested: **24CZ-LD5-40SE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260815
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-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4168.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

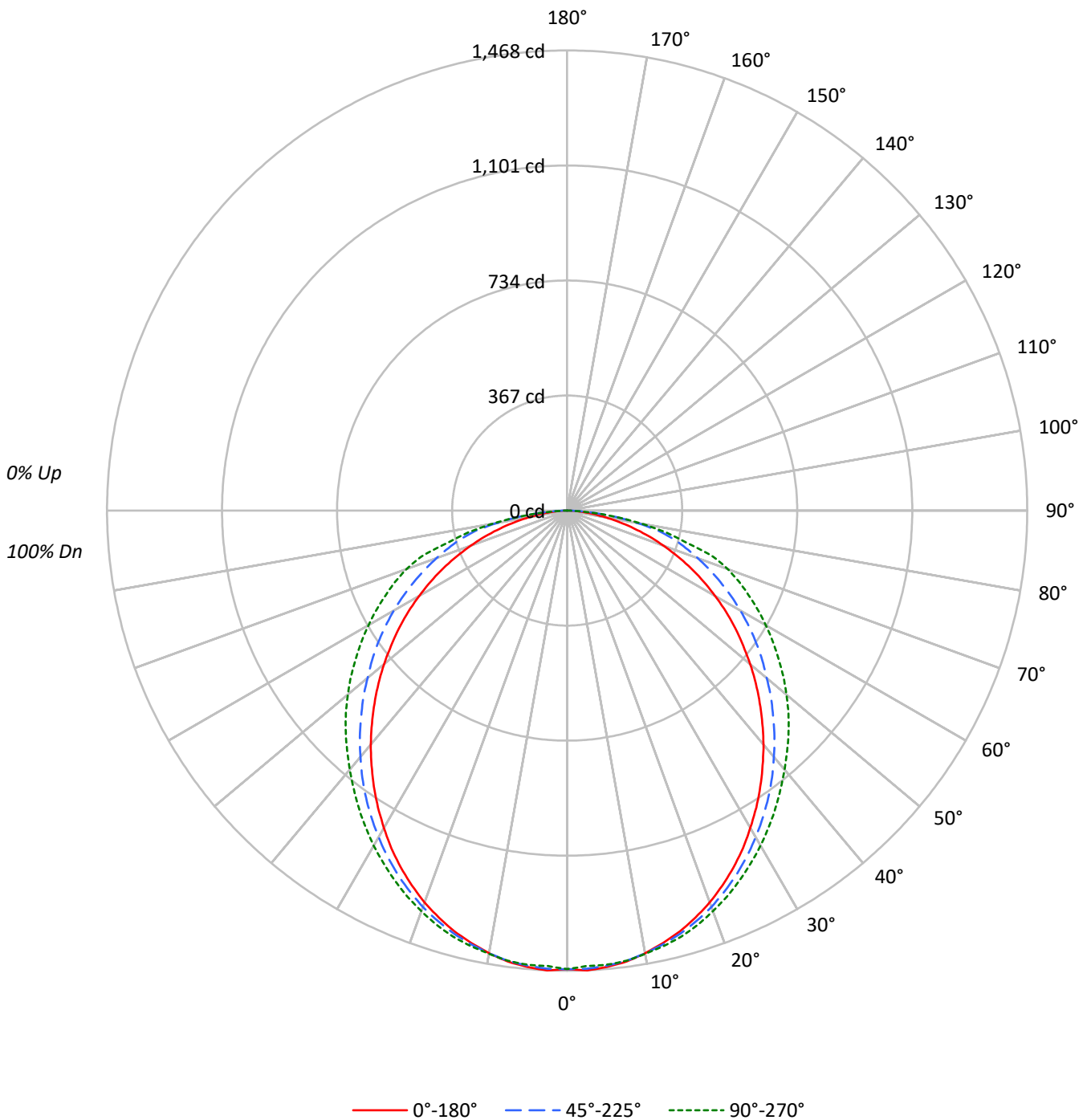
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1968	1968	1968
5°	1974	1968	1964
10°	1959	1959	1961
15°	1936	1946	1960
20°	1904	1927	1947
25°	1864	1900	1932
30°	1816	1869	1918
35°	1765	1838	1903
40°	1712	1802	1895
45°	1654	1768	1901
50°	1595	1739	1912
55°	1536	1727	1932
60°	1467	1717	1970
65°	1390	1717	2035
70°	1286	1746	2144
75°	1150	1825	2040
80°	962	1747	1869
85°	727	1345	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.3
10°-20°	393.4	9.4
20°-30°	588.1	14.1
30°-40°	697.7	16.7
40°-50°	718.1	17.2
50°-60°	658.8	15.8
60°-70°	532.7	12.8
70°-80°	345.7	8.3
80°-90°	95.3	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°	1119.8	26.9
0°-40°	1817.5	43.6
0°-60°	3194.3	76.6
0°-90°	4168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1461	1451	1457	1456	1454	139
15°	1390	1384	1397	1403	1407	392
25°	1256	1257	1280	1292	1302	578
35°	1075	1083	1119	1143	1159	672
45°	869	883	929	973	999	671
55°	655	675	736	796	823	585
65°	437	462	539	611	639	432
75°	221	263	351	392	392	235
85°	47	80	87	84	83	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.8	1462.8	1462.8	1462.8	1462.8
2.5°	1468.5	1457.0	1462.8	1461.3	1454.2
5°	1461.3	1451.3	1457.0	1455.6	1454.2
7.5°	1451.3	1441.3	1448.5	1447.1	1448.5
10°	1434.2	1425.6	1434.2	1435.6	1435.6
12.5°	1412.8	1405.7	1417.1	1419.9	1422.8
15°	1390.0	1384.3	1397.1	1402.8	1407.1
17.5°	1361.4	1357.1	1372.8	1380.0	1385.7
20°	1330.0	1328.6	1345.7	1352.9	1360.0
22.5°	1294.4	1294.4	1314.3	1322.9	1332.9
25°	1255.8	1257.3	1280.1	1291.5	1301.5
27.5°	1214.4	1215.9	1243.0	1257.3	1268.7
30°	1168.8	1174.5	1203.0	1221.6	1234.4
32.5°	1123.1	1130.2	1161.6	1183.0	1197.3
35°	1074.6	1083.1	1118.8	1143.1	1158.8
37.5°	1024.6	1034.6	1073.2	1100.3	1118.8
40°	974.7	986.1	1026.1	1057.5	1078.9
42.5°	921.9	934.7	979.0	1016.1	1038.9
45°	869.1	883.4	929.0	973.3	999.0
47.5°	816.3	833.4	881.9	930.5	957.6
50°	762.1	779.2	830.6	886.2	913.3
52.5°	707.8	727.8	784.9	842.0	869.1
55°	655.0	675.0	736.4	796.3	823.4
57.5°	600.8	620.8	687.8	750.6	777.8
60°	545.1	568.0	637.9	702.1	732.1
62.5°	490.9	515.2	589.4	657.9	686.4
65°	436.7	462.4	539.4	610.8	639.3
67.5°	381.0	411.0	490.9	563.7	593.7
70°	326.8	359.6	443.8	516.6	545.1
72.5°	274.0	309.7	396.7	470.9	488.1
75°	221.2	262.6	351.1	392.4	392.4
77.5°	171.2	216.9	299.7	315.4	323.9
80°	124.2	174.1	225.5	244.0	241.2
82.5°	82.8	132.7	161.3	161.3	157.0
85°	47.1	79.9	87.1	84.2	82.8
87.5°	20.0	30.0	27.1	21.4	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)