

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: P#

Luminaire Tested: **24CZ-LD5-40SE-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4019.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

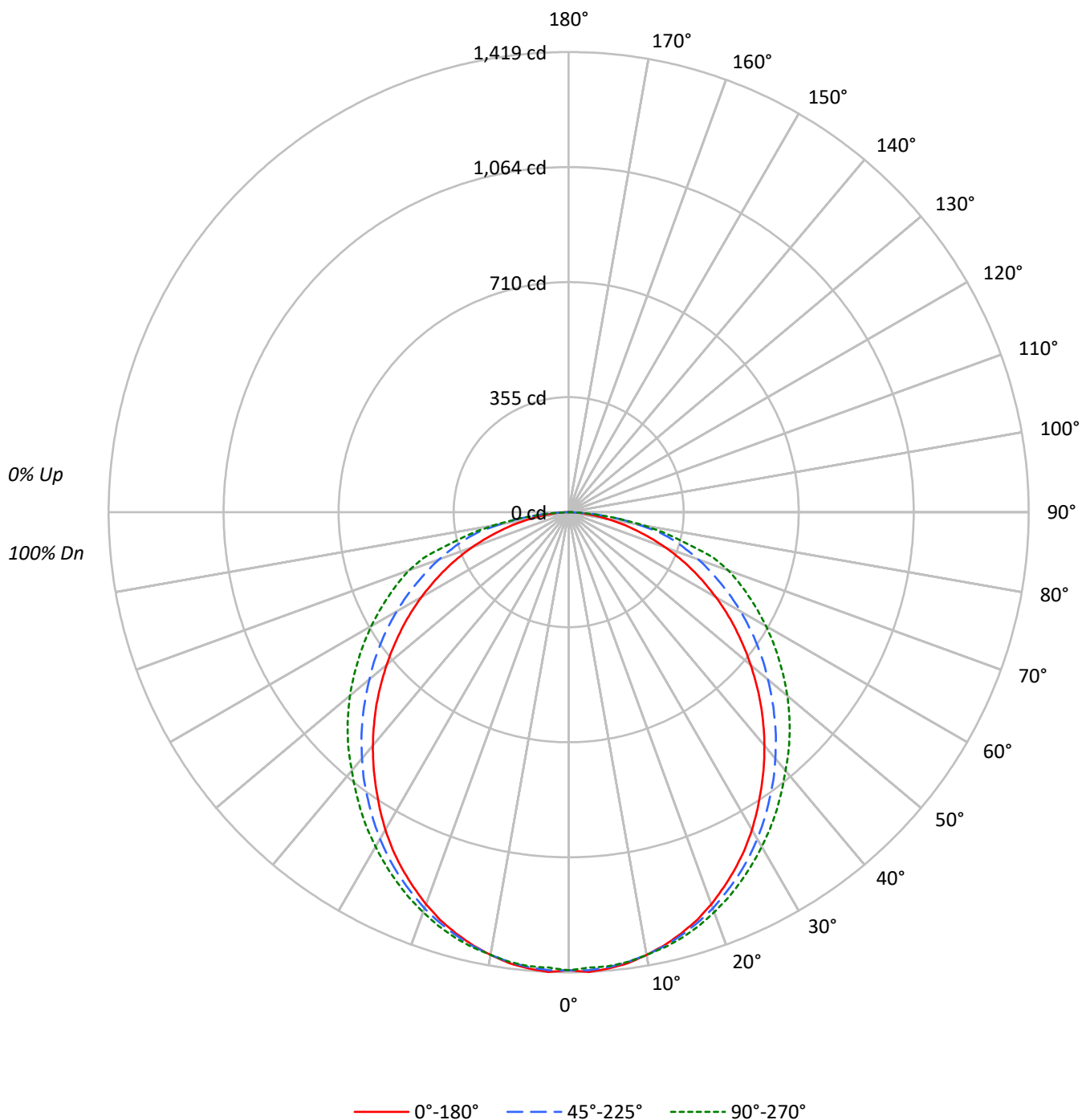
Input Watts (W): 32.55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	96	88	81	76	84	79	74	81	76	72	78	74	71	68		
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	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	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26		
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1900	1900	1900
5°	1903	1893	1890
10°	1886	1876	1877
15°	1860	1853	1866
20°	1825	1826	1846
25°	1782	1793	1823
30°	1732	1754	1798
35°	1673	1711	1777
40°	1616	1667	1754
45°	1556	1623	1747
50°	1490	1580	1739
55°	1424	1544	1733
60°	1354	1510	1740
65°	1272	1477	1761
70°	1168	1460	1811
75°	1021	1454	1665
80°	835	1279	1411
85°	575	828	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.3
10°-20°	380.1	9.5
20°-30°	568.2	14.1
30°-40°	673.8	16.8
40°-50°	692.9	17.2
50°-60°	633.8	15.8
60°-70°	511.2	12.7
70°-80°	331.9	8.3
80°-90°	93.4	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°	1081.9	26.9
0°-40°	1755.7	43.7
0°-60°	3082.5	76.7
0°-90°	4019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1412	1403	1408	1406	1406	134
15°	1344	1337	1349	1355	1358	379
25°	1214	1214	1237	1247	1256	559
35°	1036	1046	1080	1102	1120	648
45°	838	853	898	939	964	646
55°	629	649	708	764	792	562
65°	421	446	517	584	612	416
75°	215	254	335	376	380	229
85°	48	79	86	85	82	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1419.2	1408.2	1413.7	1410.9	1405.5
5°	1412.3	1402.7	1408.2	1405.5	1405.5
7.5°	1402.7	1393.2	1398.6	1398.6	1398.6
10°	1386.3	1378.1	1386.3	1386.3	1386.3
12.5°	1367.2	1360.4	1369.9	1371.3	1374.0
15°	1344.0	1337.1	1349.4	1354.9	1357.6
17.5°	1318.0	1312.5	1326.2	1333.0	1337.1
20°	1286.5	1282.4	1300.2	1307.0	1312.5
22.5°	1251.0	1251.0	1268.8	1277.0	1286.5
25°	1214.1	1214.1	1237.3	1246.9	1256.5
27.5°	1174.4	1175.8	1201.8	1215.4	1225.0
30°	1130.7	1136.1	1163.5	1179.9	1190.8
32.5°	1084.2	1091.0	1122.5	1143.0	1156.6
35°	1036.3	1045.9	1080.1	1102.0	1119.7
37.5°	988.5	1000.8	1037.7	1062.3	1080.1
40°	939.3	952.9	991.2	1019.9	1040.4
42.5°	888.7	903.7	946.1	978.9	1003.5
45°	838.1	853.1	898.2	939.3	963.9
47.5°	784.8	802.5	850.4	898.2	922.9
50°	732.8	752.0	802.5	854.5	880.5
52.5°	680.9	702.7	756.1	810.7	836.7
55°	628.9	649.4	708.2	764.3	791.6
57.5°	577.0	598.8	660.4	719.1	747.9
60°	525.0	548.2	612.5	674.0	702.7
62.5°	471.7	496.3	564.7	628.9	657.6
65°	421.1	445.7	516.8	583.8	612.5
67.5°	369.1	396.5	470.3	538.7	568.8
70°	317.2	347.3	425.2	493.6	523.6
72.5°	265.2	299.4	378.7	447.1	468.9
75°	214.7	254.3	335.0	376.0	380.1
77.5°	168.2	209.2	285.7	302.2	310.4
80°	123.0	168.2	214.7	235.2	233.8
82.5°	82.0	128.5	154.5	157.2	154.5
85°	47.9	79.3	86.1	84.8	82.0
87.5°	20.5	31.4	27.3	23.2	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)