

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-LD5-45-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-LD5-45-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

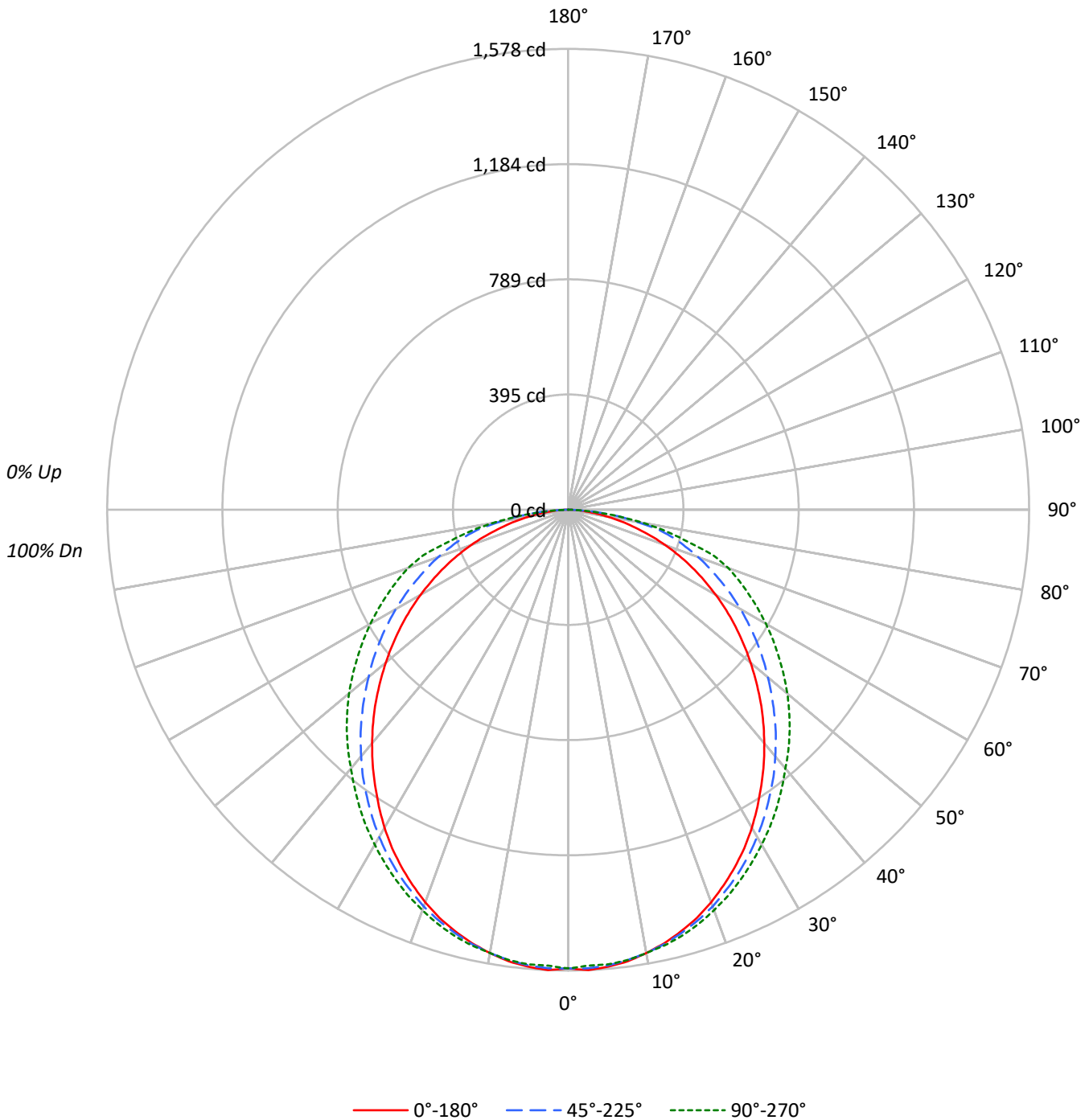
Lumens per Lamp: N/A
Luminaire Lumens: 4469.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 35.69
Input Voltage (V): NR
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	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°	2113	2113	2113
5°	2116	2105	2102
10°	2097	2087	2088
15°	2068	2061	2075
20°	2030	2031	2052
25°	1981	1993	2027
30°	1926	1950	2000
35°	1860	1902	1976
40°	1797	1853	1950
45°	1730	1805	1942
50°	1656	1757	1934
55°	1584	1717	1927
60°	1506	1679	1935
65°	1415	1643	1958
70°	1298	1623	2014
75°	1135	1617	1851
80°	928	1422	1570
85°	639	921	896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.3
10°-20°	422.7	9.5
20°-30°	631.9	14.1
30°-40°	749.3	16.8
40°-50°	770.5	17.2
50°-60°	704.8	15.8
60°-70°	568.5	12.7
70°-80°	369.1	8.3
80°-90°	103.9	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°	1203.1	26.9
0°-40°	1952.3	43.7
0°-60°	3427.6	76.7
0°-90°	4469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1570	1560	1566	1563	1563	149
15°	1494	1487	1500	1507	1510	421
25°	1350	1350	1376	1386	1397	621
35°	1152	1163	1201	1225	1245	721
45°	932	949	999	1044	1072	718
55°	699	722	788	850	880	625
65°	468	496	575	649	681	463
75°	239	283	372	418	423	254
85°	53	88	96	94	91	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.4	1570.4	1570.4	1570.4	1570.4
2.5°	1578.1	1565.9	1572.0	1568.9	1562.8
5°	1570.4	1559.8	1565.9	1562.8	1562.8
7.5°	1559.8	1549.2	1555.2	1555.2	1555.2
10°	1541.6	1532.4	1541.6	1541.6	1541.6
12.5°	1520.3	1512.7	1523.3	1524.8	1527.9
15°	1494.4	1486.8	1500.5	1506.6	1509.6
17.5°	1465.6	1459.5	1474.7	1482.3	1486.8
20°	1430.6	1426.0	1445.8	1453.4	1459.5
22.5°	1391.1	1391.1	1410.8	1419.9	1430.6
25°	1350.0	1350.0	1375.9	1386.5	1397.1
27.5°	1305.9	1307.4	1336.3	1351.5	1362.2
30°	1257.3	1263.4	1293.8	1312.0	1324.2
32.5°	1205.6	1213.2	1248.2	1271.0	1286.2
35°	1152.4	1163.0	1201.0	1225.3	1245.1
37.5°	1099.2	1112.8	1153.9	1181.3	1201.0
40°	1044.4	1059.6	1102.2	1134.1	1156.9
42.5°	988.2	1004.9	1052.0	1088.5	1115.9
45°	931.9	948.7	998.8	1044.4	1071.8
47.5°	872.6	892.4	945.6	998.8	1026.2
50°	814.9	836.2	892.4	950.2	979.1
52.5°	757.1	781.4	840.7	901.5	930.4
55°	699.3	722.1	787.5	849.8	880.2
57.5°	641.6	665.9	734.3	799.7	831.6
60°	583.8	609.6	681.1	749.5	781.4
62.5°	524.5	551.9	627.9	699.3	731.3
65°	468.2	495.6	574.7	649.2	681.1
67.5°	410.5	440.9	523.0	599.0	632.4
70°	352.7	386.2	472.8	548.8	582.3
72.5°	294.9	332.9	421.1	497.1	521.5
75°	238.7	282.8	372.5	418.1	422.6
77.5°	187.0	232.6	317.7	336.0	345.1
80°	136.8	187.0	238.7	261.5	260.0
82.5°	91.2	142.9	171.8	174.8	171.8
85°	53.2	88.2	95.8	94.3	91.2
87.5°	22.8	35.0	30.4	25.8	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)