

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-LD5-55SE-UNV-L830-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-LD5-55SE-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5215.9 lumens
Efficiency: N/A
Efficacy: 95.4 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

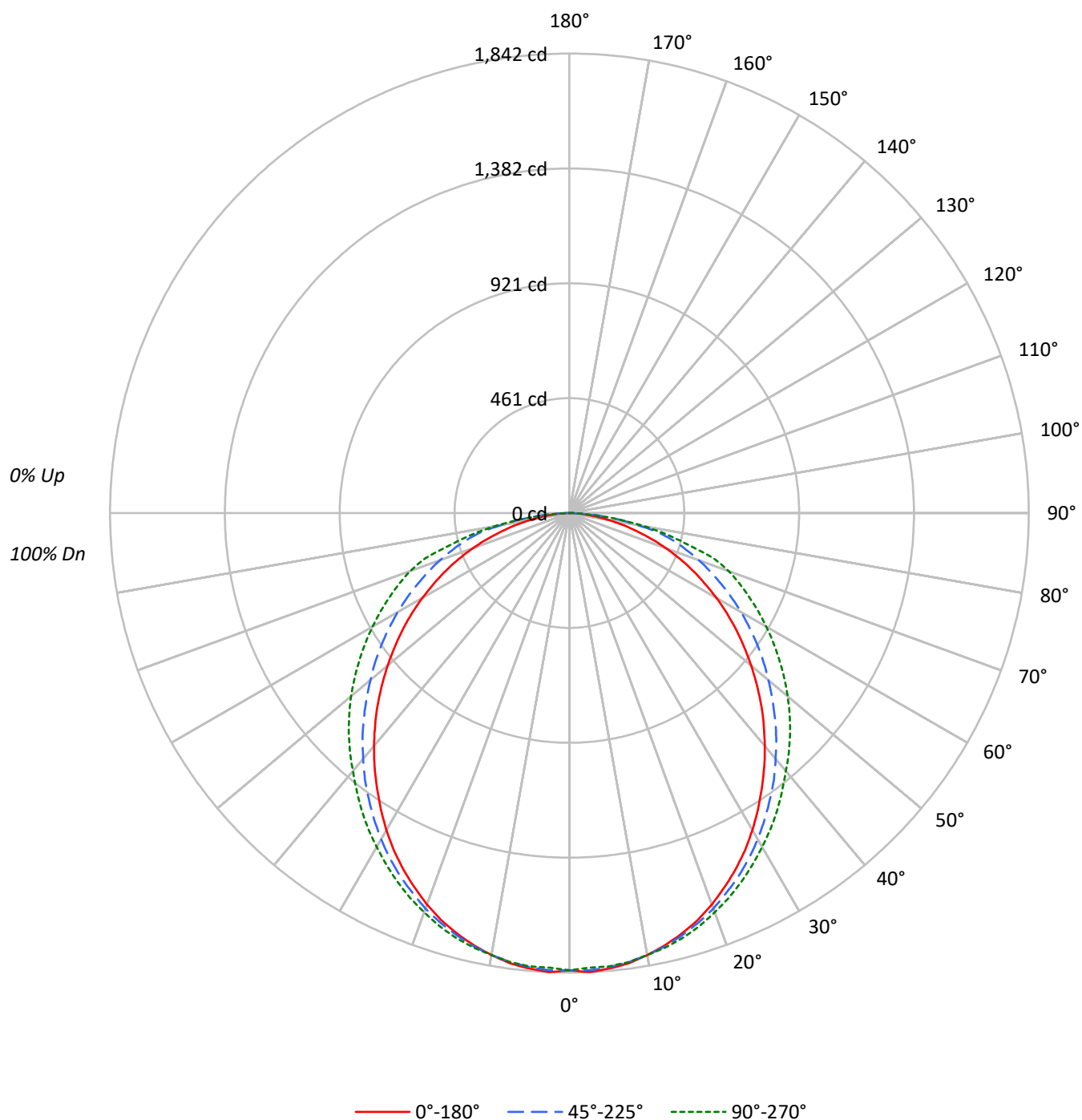
Input Watts (W): 54.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83		83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68		68
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57		57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26		26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2466	2466	2466
5°	2470	2457	2453
10°	2447	2435	2437
15°	2413	2405	2422
20°	2369	2370	2395
25°	2312	2326	2366
30°	2247	2276	2334
35°	2171	2220	2306
40°	2097	2163	2276
45°	2019	2106	2267
50°	1933	2051	2257
55°	1849	2004	2249
60°	1757	1959	2259
65°	1651	1917	2286
70°	1515	1895	2351
75°	1324	1886	2161
80°	1084	1659	1832
85°	746	1075	1046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	3.3
10°-20°	493.3	9.5
20°-30°	737.5	14.1
30°-40°	874.5	16.8
40°-50°	899.3	17.2
50°-60°	822.6	15.8
60°-70°	663.5	12.7
70°-80°	430.7	8.3
80°-90°	121.2	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°	1404.1	26.9
0°-40°	2278.6	43.7
0°-60°	4000.5	76.7
0°-90°	5215.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5215.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1833	1820	1828	1824	1824	174
15°	1744	1735	1751	1758	1762	492
25°	1576	1576	1606	1618	1631	725
35°	1345	1357	1402	1430	1453	842
45°	1088	1107	1166	1219	1251	838
55°	816	843	919	992	1027	730
65°	546	578	671	758	795	540
75°	278	330	435	488	493	297
85°	62	103	112	110	106	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1832.9	1832.9	1832.9	1832.9	1832.9
2.5°	1841.8	1827.6	1834.7	1831.1	1824.1
5°	1832.9	1820.5	1827.6	1824.1	1824.1
7.5°	1820.5	1808.1	1815.2	1815.2	1815.2
10°	1799.2	1788.6	1799.2	1799.2	1799.2
12.5°	1774.4	1765.5	1777.9	1779.7	1783.2
15°	1744.2	1735.4	1751.3	1758.4	1762.0
17.5°	1710.5	1703.4	1721.1	1730.0	1735.4
20°	1669.7	1664.4	1687.4	1696.3	1703.4
22.5°	1623.6	1623.6	1646.6	1657.3	1669.7
25°	1575.7	1575.7	1605.8	1618.2	1630.7
27.5°	1524.2	1526.0	1559.7	1577.4	1589.8
30°	1467.4	1474.5	1510.0	1531.3	1545.5
32.5°	1407.0	1416.0	1456.7	1483.4	1501.1
35°	1345.0	1357.4	1401.7	1430.1	1453.2
37.5°	1282.9	1298.8	1346.7	1378.7	1401.7
40°	1219.0	1236.7	1286.4	1323.7	1350.3
42.5°	1153.4	1172.9	1227.9	1270.4	1302.4
45°	1087.7	1107.2	1165.7	1219.0	1251.0
47.5°	1018.5	1041.6	1103.7	1165.7	1197.7
50°	951.0	975.9	1041.6	1109.0	1142.7
52.5°	883.6	912.0	981.3	1052.2	1085.9
55°	816.2	842.8	919.1	991.9	1027.3
57.5°	748.8	777.2	857.0	933.3	970.6
60°	681.3	711.6	795.0	874.8	912.0
62.5°	612.2	644.1	732.8	816.2	853.5
65°	546.5	578.5	670.7	757.6	795.0
67.5°	479.1	514.6	610.4	699.1	738.2
70°	411.6	450.7	551.9	640.6	679.6
72.5°	344.2	388.5	491.5	580.3	608.6
75°	278.5	330.0	434.7	487.9	493.2
77.5°	218.2	271.5	370.9	392.2	402.8
80°	159.7	218.2	278.5	305.2	303.4
82.5°	106.5	166.8	200.5	204.1	200.5
85°	62.1	102.9	111.8	110.0	106.5
87.5°	26.6	40.8	35.5	30.2	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)