

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-LD5-35SE-UNV-L840-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-LD5-35SE-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3601.7 lumens
Efficiency: N/A
Efficacy: 126.1 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

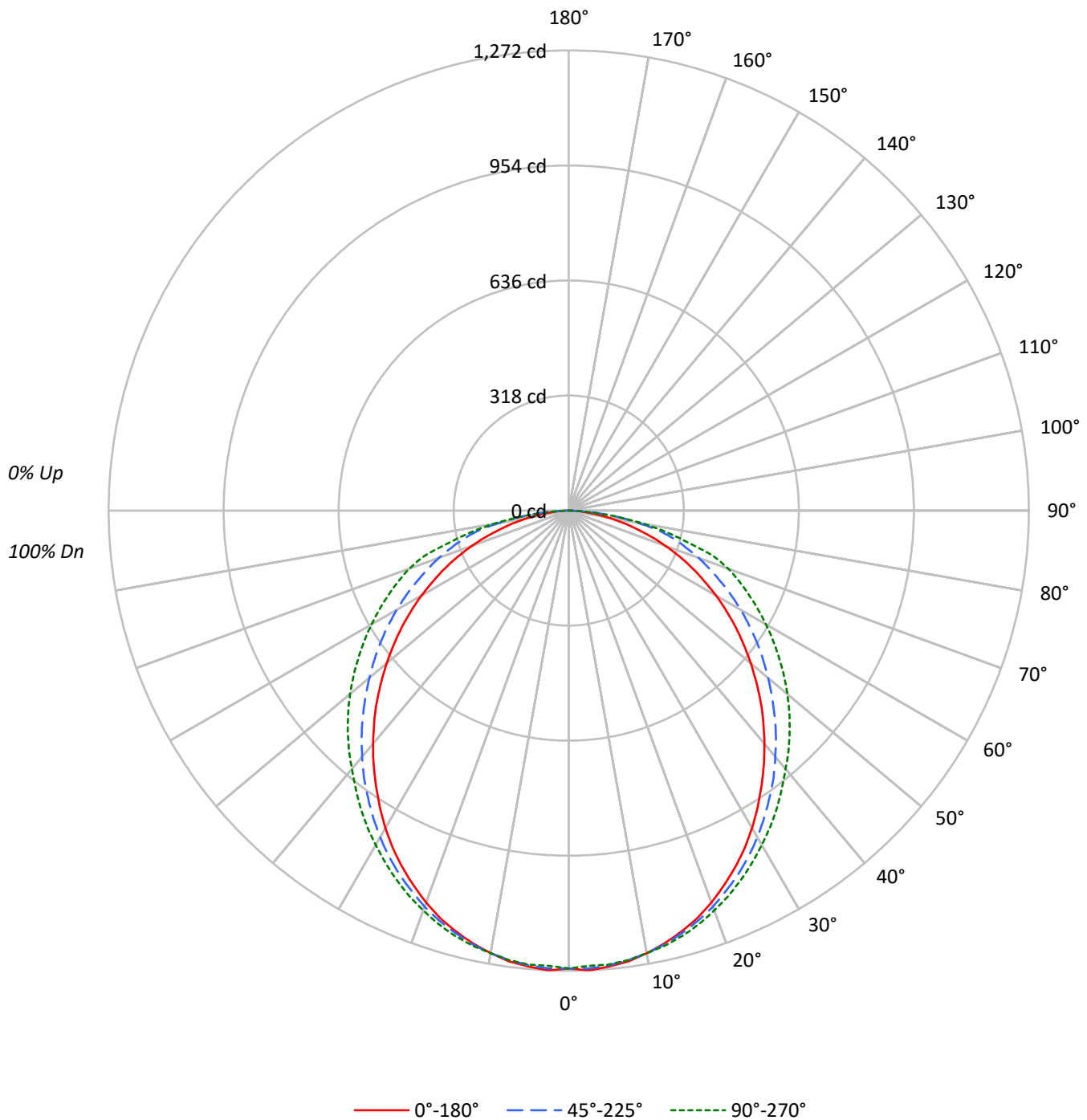
Input Watts (W): 28.57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1703	1703	1703
5°	1706	1697	1694
10°	1690	1682	1683
15°	1667	1661	1672
20°	1636	1637	1654
25°	1597	1606	1634
30°	1552	1572	1612
35°	1499	1533	1592
40°	1448	1494	1572
45°	1394	1455	1565
50°	1335	1416	1559
55°	1277	1384	1553
60°	1214	1353	1560
65°	1140	1324	1578
70°	1046	1308	1623
75°	915	1303	1492
80°	749	1146	1265
85°	515	742	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	3.3
10°-20°	340.7	9.5
20°-30°	509.2	14.1
30°-40°	603.8	16.8
40°-50°	621.0	17.2
50°-60°	568.0	15.8
60°-70°	458.1	12.7
70°-80°	297.4	8.3
80°-90°	83.7	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°	969.6	26.9
0°-40°	1573.4	43.7
0°-60°	2762.4	76.7
0°-90°	3601.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3601.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1266	1257	1262	1260	1260	120
15°	1204	1198	1209	1214	1217	339
25°	1088	1088	1109	1117	1126	501
35°	929	937	968	988	1003	581
45°	751	764	805	842	864	579
55°	564	582	635	685	709	504
65°	377	399	463	523	549	373
75°	192	228	300	337	341	205
85°	43	71	77	76	74	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1271.8	1262.0	1266.9	1264.4	1259.5
5°	1265.6	1257.1	1262.0	1259.5	1259.5
7.5°	1257.1	1248.5	1253.4	1253.4	1253.4
10°	1242.4	1235.0	1242.4	1242.4	1242.4
12.5°	1225.2	1219.1	1227.7	1228.9	1231.3
15°	1204.4	1198.3	1209.3	1214.2	1216.6
17.5°	1181.1	1176.2	1188.5	1194.6	1198.3
20°	1152.9	1149.2	1165.2	1171.3	1176.2
22.5°	1121.1	1121.1	1137.0	1144.3	1152.9
25°	1088.0	1088.0	1108.8	1117.4	1126.0
27.5°	1052.5	1053.7	1077.0	1089.2	1097.8
30°	1013.3	1018.2	1042.7	1057.4	1067.2
32.5°	971.6	977.7	1005.9	1024.3	1036.5
35°	928.7	937.3	967.9	987.5	1003.4
37.5°	885.8	896.9	929.9	952.0	967.9
40°	841.7	854.0	888.3	914.0	932.4
42.5°	796.4	809.9	847.8	877.3	899.3
45°	751.1	764.5	805.0	841.7	863.8
47.5°	703.3	719.2	762.1	805.0	827.0
50°	656.7	673.9	719.2	765.8	789.0
52.5°	610.2	629.8	677.5	726.6	749.8
55°	563.6	582.0	634.7	684.9	709.4
57.5°	517.0	536.6	591.8	644.5	670.2
60°	470.5	491.3	548.9	604.0	629.8
62.5°	422.7	444.8	506.0	563.6	589.3
65°	377.4	399.4	463.1	523.2	548.9
67.5°	330.8	355.3	421.5	482.7	509.7
70°	284.2	311.2	381.0	442.3	469.3
72.5°	237.7	268.3	339.4	400.6	420.2
75°	192.4	227.9	300.2	336.9	340.6
77.5°	150.7	187.5	256.1	270.8	278.1
80°	110.3	150.7	192.4	210.7	209.5
82.5°	73.5	115.2	138.4	140.9	138.4
85°	42.9	71.1	77.2	76.0	73.5
87.5°	18.4	28.2	24.5	20.8	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)