

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-LD5-40-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-LD5-40-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

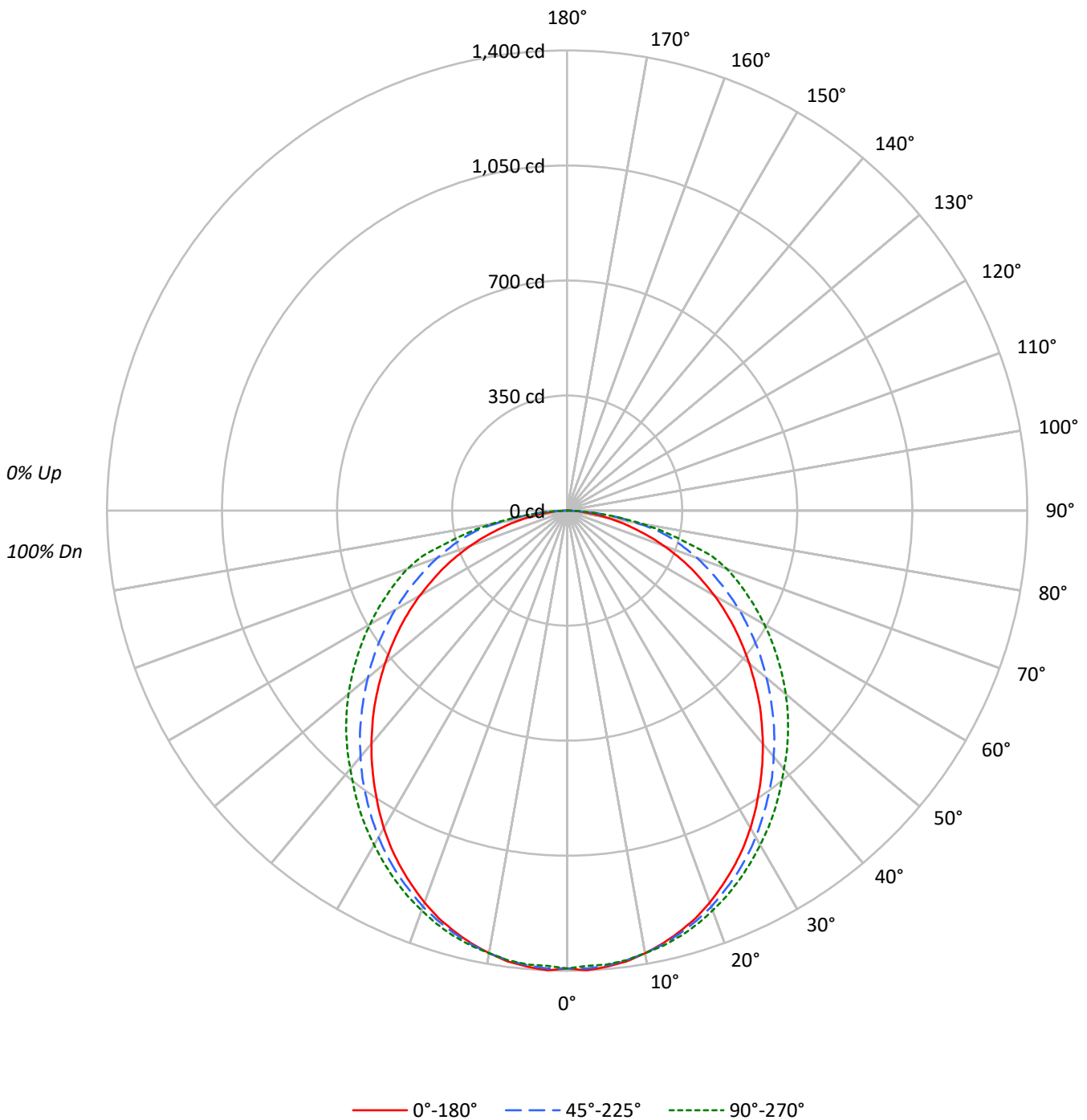
Lumens per Lamp: N/A
Luminaire Lumens: 3964.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.04
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	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°	1874	1874	1874
5°	1877	1867	1864
10°	1860	1851	1852
15°	1834	1828	1841
20°	1800	1801	1820
25°	1757	1768	1798
30°	1708	1730	1774
35°	1650	1687	1753
40°	1594	1644	1730
45°	1534	1601	1723
50°	1469	1558	1716
55°	1405	1523	1710
60°	1336	1489	1716
65°	1255	1457	1737
70°	1151	1440	1786
75°	1007	1434	1642
80°	824	1261	1392
85°	567	817	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.3
10°-20°	374.9	9.5
20°-30°	560.5	14.1
30°-40°	664.6	16.8
40°-50°	683.5	17.2
50°-60°	625.2	15.8
60°-70°	504.2	12.7
70°-80°	327.3	8.3
80°-90°	92.1	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°	1067.1	26.9
0°-40°	1731.7	43.7
0°-60°	3040.3	76.7
0°-90°	3964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1393	1384	1389	1386	1386	132
15°	1326	1319	1331	1336	1339	374
25°	1198	1198	1220	1230	1239	551
35°	1022	1032	1065	1087	1104	640
45°	827	842	886	926	951	637
55°	620	640	698	754	781	555
65°	415	440	510	576	604	411
75°	212	251	330	371	375	226
85°	47	78	85	84	81	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1399.7	1388.9	1394.3	1391.6	1386.2
5°	1393.0	1383.5	1388.9	1386.2	1386.2
7.5°	1383.5	1374.1	1379.5	1379.5	1379.5
10°	1367.4	1359.3	1367.4	1367.4	1367.4
12.5°	1348.5	1341.7	1351.2	1352.5	1355.2
15°	1325.6	1318.8	1331.0	1336.4	1339.0
17.5°	1299.9	1294.5	1308.0	1314.8	1318.8
20°	1268.9	1264.9	1282.4	1289.2	1294.5
22.5°	1233.9	1233.9	1251.4	1259.5	1268.9
25°	1197.5	1197.5	1220.4	1229.8	1239.3
27.5°	1158.4	1159.7	1185.3	1198.8	1208.2
30°	1115.2	1120.6	1147.6	1163.7	1174.5
32.5°	1069.4	1076.1	1107.1	1127.3	1140.8
35°	1022.2	1031.6	1065.3	1086.9	1104.4
37.5°	975.0	987.1	1023.5	1047.8	1065.3
40°	926.4	939.9	977.7	1006.0	1026.2
42.5°	876.5	891.4	933.2	965.5	989.8
45°	826.6	841.5	886.0	926.4	950.7
47.5°	774.0	791.6	838.8	886.0	910.2
50°	722.8	741.7	791.6	842.8	868.4
52.5°	671.5	693.1	745.7	799.7	825.3
55°	620.3	640.5	698.5	753.8	780.8
57.5°	569.1	590.6	651.3	709.3	737.6
60°	517.8	540.7	604.1	664.8	693.1
62.5°	465.2	489.5	556.9	620.3	648.6
65°	415.3	439.6	509.7	575.8	604.1
67.5°	364.1	391.1	463.9	531.3	561.0
70°	312.8	342.5	419.4	486.8	516.5
72.5°	261.6	295.3	373.5	441.0	462.5
75°	211.7	250.8	330.4	370.8	374.9
77.5°	165.9	206.3	281.8	298.0	306.1
80°	121.4	165.9	211.7	231.9	230.6
82.5°	80.9	126.8	152.4	155.1	152.4
85°	47.2	78.2	85.0	83.6	80.9
87.5°	20.2	31.0	27.0	22.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)