

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: **22CZ-LD5-34-S-UNV-L850-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 (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-S-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3935.6 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

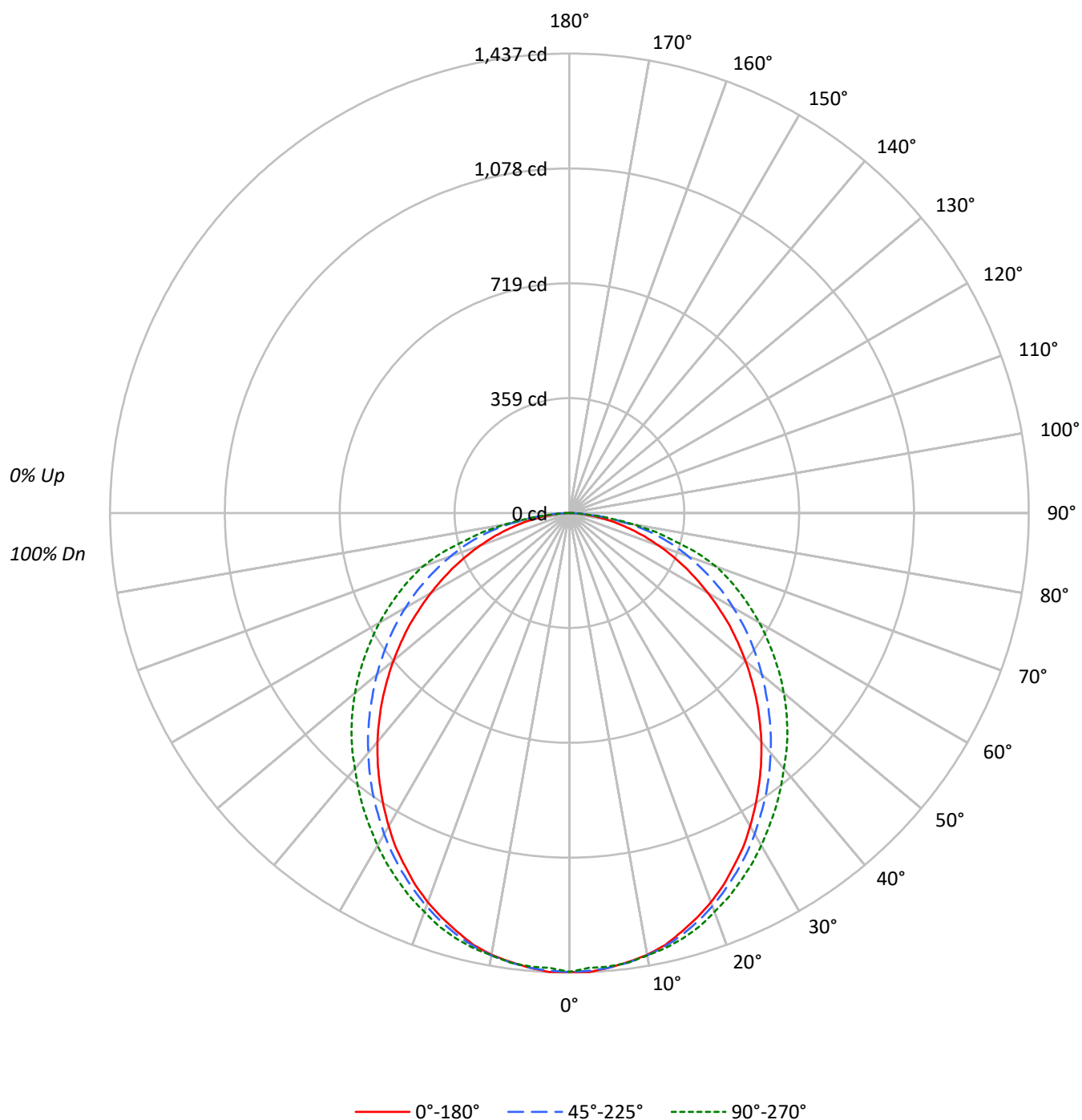
Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83		
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58		
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27		
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3861	3861	3861
5°	3838	3832	3828
10°	3799	3791	3804
15°	3726	3732	3783
20°	3642	3652	3732
25°	3532	3559	3680
30°	3414	3459	3625
35°	3282	3355	3570
40°	3148	3247	3518
45°	3001	3138	3494
50°	2838	3036	3458
55°	2674	2940	3419
60°	2481	2837	3399
65°	2283	2728	3381
70°	2053	2603	3374
75°	1773	2442	2998
80°	1438	2050	2419
85°	965	1194	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	3.4
10°-20°	384.9	9.8
20°-30°	571.7	14.5
30°-40°	672.9	17.1
40°-50°	686.0	17.4
50°-60°	618.7	15.7
60°-70°	487.3	12.4
70°-80°	300.6	7.6
80°-90°	78.0	2.0
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°	1092.0	27.7
0°-40°	1764.9	44.8
0°-60°	3069.6	78.0
0°-90°	3935.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3935.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1427	1429	1427	1425	1423	135
15°	1355	1361	1365	1372	1376	382
25°	1217	1225	1238	1259	1268	561
35°	1034	1045	1072	1106	1125	647
45°	828	841	883	936	964	638
55°	611	631	690	752	781	545
65°	397	425	493	556	588	393
75°	202	236	297	331	342	216
85°	49	62	70	66	62	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.7	1434.7	1434.7	1434.7	1434.7
2.5°	1436.6	1436.6	1432.9	1429.1	1423.4
5°	1427.2	1429.1	1427.2	1425.3	1423.4
7.5°	1415.8	1417.7	1417.7	1417.7	1417.7
10°	1402.6	1404.5	1404.5	1404.5	1404.5
12.5°	1383.7	1385.6	1387.5	1389.4	1393.2
15°	1355.4	1361.0	1364.8	1372.4	1376.1
17.5°	1327.0	1332.7	1338.3	1347.8	1355.4
20°	1294.9	1298.6	1308.1	1319.4	1327.0
22.5°	1258.9	1264.6	1274.1	1289.2	1300.5
25°	1217.4	1224.9	1238.2	1258.9	1268.4
27.5°	1177.7	1183.3	1200.3	1223.0	1236.3
30°	1130.4	1138.0	1158.8	1187.1	1200.3
32.5°	1083.1	1092.6	1115.3	1147.4	1162.5
35°	1034.0	1045.3	1071.8	1105.8	1124.7
37.5°	984.9	996.2	1026.4	1064.2	1085.0
40°	933.8	945.2	979.2	1020.8	1043.5
42.5°	880.9	894.1	931.9	979.2	1005.6
45°	828.0	841.2	882.8	935.7	964.1
47.5°	773.1	788.3	833.6	892.2	920.6
50°	718.3	735.3	786.4	846.9	875.2
52.5°	663.5	682.4	737.2	799.6	829.8
55°	610.6	631.4	690.0	752.3	780.7
57.5°	553.9	578.4	640.8	701.3	733.4
60°	500.9	527.4	591.7	652.2	686.2
62.5°	448.0	476.4	544.4	604.9	637.0
65°	397.0	425.3	493.4	555.8	587.9
67.5°	345.9	378.1	444.2	506.6	538.7
70°	296.8	330.8	395.1	455.6	487.7
72.5°	249.5	283.5	347.8	404.5	423.4
75°	202.3	236.3	296.8	330.8	342.1
77.5°	158.8	190.9	243.8	264.6	279.8
80°	119.1	147.4	185.3	198.5	200.4
82.5°	81.3	105.9	128.5	130.4	128.5
85°	49.1	62.4	69.9	66.2	62.4
87.5°	22.7	24.6	22.7	15.1	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)