

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-LD5-30-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 (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-S-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3387.5 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

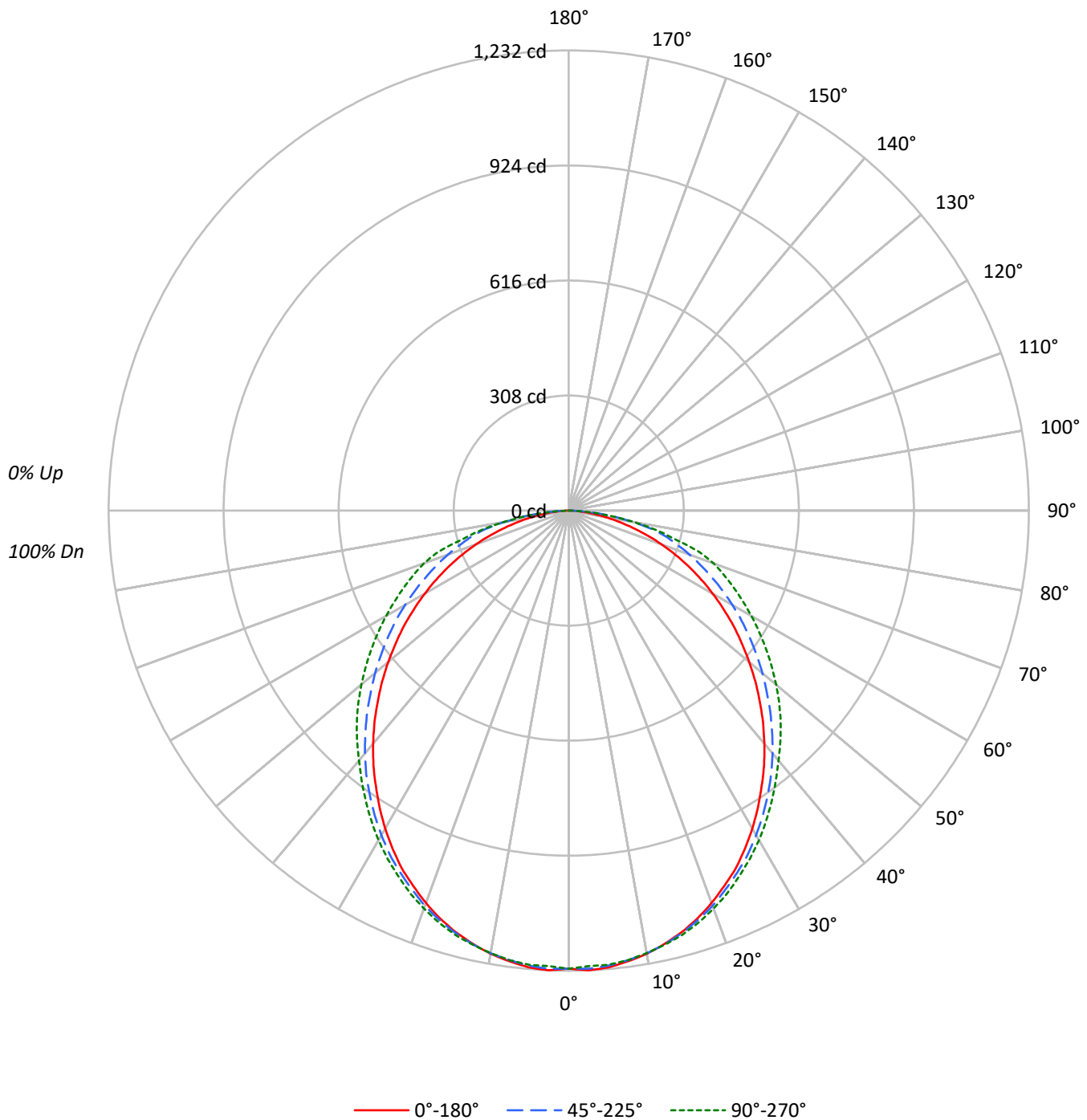
Input Watts (W): 21.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50		
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43		
6	70	56	47	41	68	55	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	35	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	33	29	39	33	29	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1650	1650	1650
5°	1654	1644	1642
10°	1639	1629	1629
15°	1617	1608	1616
20°	1587	1582	1595
25°	1552	1548	1567
30°	1505	1512	1539
35°	1454	1471	1504
40°	1402	1427	1472
45°	1343	1379	1454
50°	1283	1331	1432
55°	1220	1288	1412
60°	1148	1247	1398
65°	1069	1208	1400
70°	971	1180	1427
75°	842	1169	1274
80°	673	1020	1061
85°	447	661	620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	3.4
10°-20°	329.7	9.7
20°-30°	491.4	14.5
30°-40°	578.5	17.1
40°-50°	587.8	17.4
50°-60°	528.5	15.6
60°-70°	417.5	12.3
70°-80°	264.9	7.8
80°-90°	73.1	2.2
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°	937.1	27.7
0°-40°	1515.6	44.7
0°-60°	2631.9	77.7
0°-90°	3387.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3387.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1228	1217	1223	1221	1221	116
15°	1169	1163	1171	1174	1176	329
25°	1057	1056	1068	1075	1080	486
35°	901	906	929	939	948	563
45°	724	734	763	786	802	558
55°	539	552	591	629	645	481
65°	354	372	423	469	487	351
75°	177	207	269	293	291	188
85°	37	64	69	63	63	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1226.3	1226.3	1226.3	1226.3	1226.3
2.5°	1232.0	1223.0	1227.5	1225.2	1220.7
5°	1227.5	1217.3	1223.0	1220.7	1220.7
7.5°	1217.3	1209.4	1213.9	1212.8	1213.9
10°	1204.9	1197.0	1203.8	1203.8	1202.7
12.5°	1188.0	1181.2	1189.1	1189.1	1190.3
15°	1168.8	1163.2	1171.1	1174.5	1175.6
17.5°	1145.2	1139.5	1149.7	1153.1	1156.4
20°	1118.1	1115.9	1126.0	1129.4	1133.9
22.5°	1087.7	1087.7	1097.8	1102.3	1109.1
25°	1057.3	1056.1	1068.5	1075.3	1079.8
27.5°	1021.2	1022.3	1038.1	1044.9	1050.5
30°	982.9	985.1	1003.2	1011.0	1018.9
32.5°	942.3	946.8	967.1	976.1	984.0
35°	900.6	906.2	928.8	938.9	947.9
37.5°	858.9	866.8	890.4	900.6	910.7
40°	814.9	821.7	848.7	861.1	873.5
42.5°	769.8	778.9	805.9	823.9	838.6
45°	723.6	733.8	763.1	785.6	802.5
47.5°	677.4	690.9	719.1	749.6	764.2
50°	631.2	644.7	676.3	710.1	724.8
52.5°	583.9	597.4	633.5	668.4	684.2
55°	538.8	552.3	590.6	628.9	644.7
57.5°	491.4	506.1	548.9	588.4	604.1
60°	445.2	459.9	506.1	547.8	564.7
62.5°	400.1	415.9	464.4	508.3	525.2
65°	353.9	372.0	422.7	468.9	486.9
67.5°	308.8	329.1	382.1	430.6	449.7
70°	263.8	287.4	343.8	393.4	412.5
72.5°	219.8	245.7	305.5	355.1	365.2
75°	177.0	207.4	269.4	293.1	290.8
77.5°	136.4	170.2	228.8	233.3	240.1
80°	99.2	136.4	171.3	180.3	175.8
82.5°	65.4	102.6	122.9	118.4	117.2
85°	37.2	64.2	68.8	63.1	63.1
87.5°	15.8	25.9	22.5	16.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)