

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-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 (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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3070.2 lumens
Efficiency: N/A
Efficacy: 142.0 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

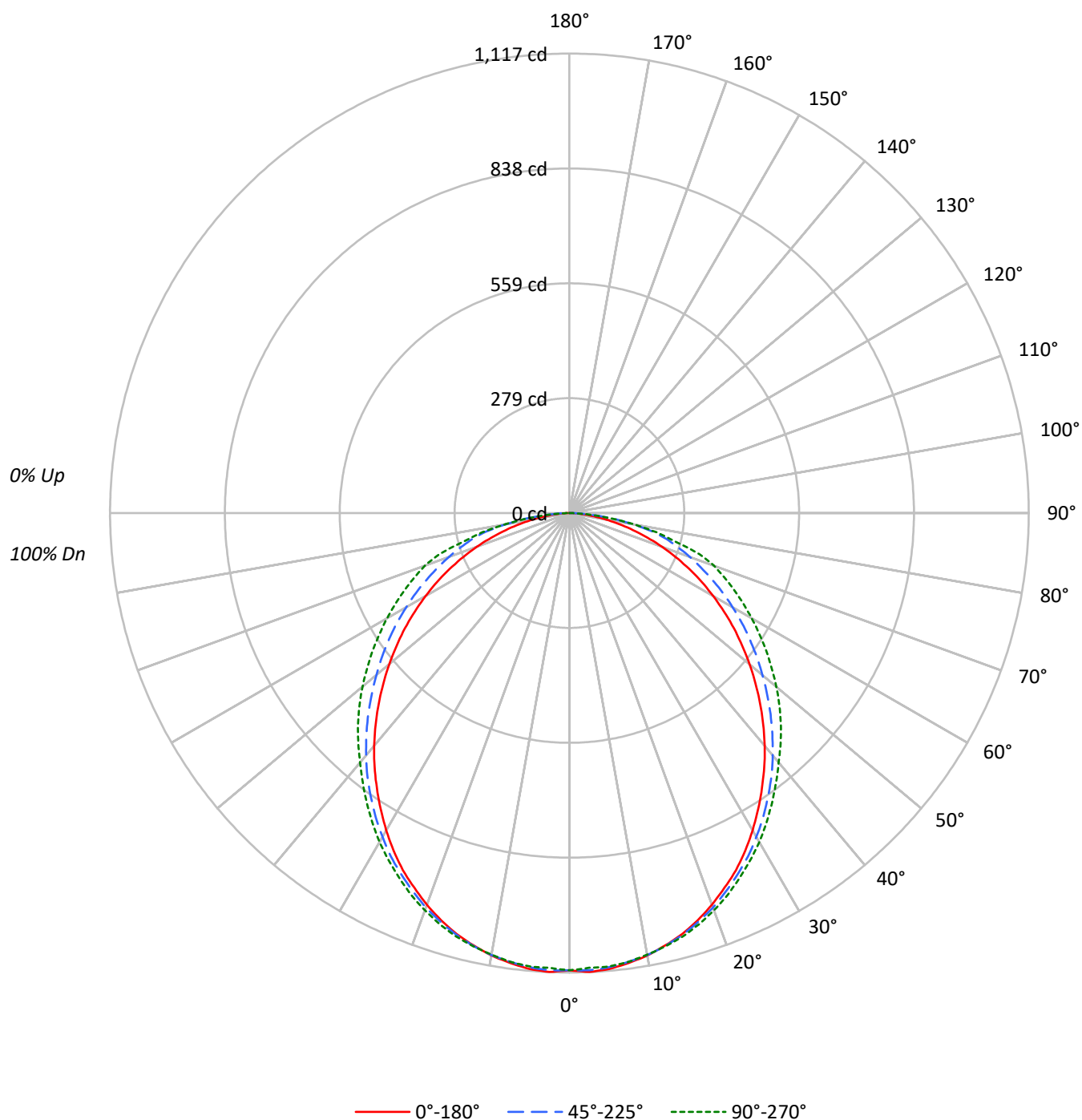
Input Watts (W): 21.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-S-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-S-UNV-L835-CD1-U

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1496	1496	1496
5°	1499	1490	1488
10°	1486	1477	1476
15°	1466	1458	1465
20°	1438	1434	1445
25°	1406	1403	1420
30°	1364	1371	1395
35°	1318	1333	1363
40°	1271	1293	1335
45°	1217	1250	1318
50°	1163	1207	1298
55°	1106	1167	1279
60°	1041	1131	1267
65°	969	1095	1269
70°	880	1070	1293
75°	763	1060	1155
80°	610	925	962
85°	405	599	562



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-S-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.4
10°-20°	298.9	9.7
20°-30°	445.4	14.5
30°-40°	524.3	17.1
40°-50°	532.8	17.4
50°-60°	479.0	15.6
60°-70°	378.4	12.3
70°-80°	240.1	7.8
80°-90°	66.3	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°	849.3	27.7
0°-40°	1373.6	44.7
0°-60°	2385.4	77.7
0°-90°	3070.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1112	1103	1108	1106	1106	105
15°	1059	1054	1061	1064	1066	298
25°	958	957	968	975	979	441
35°	816	821	842	851	859	511
45°	656	665	692	712	727	506
55°	488	501	535	570	584	436
65°	321	337	383	425	441	318
75°	160	188	244	266	264	171
85°	34	58	62	57	57	41
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-30-S-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.5	1111.5	1111.5	1111.5	1111.5
2.5°	1116.6	1108.4	1112.5	1110.4	1106.4
5°	1112.5	1103.3	1108.4	1106.4	1106.4
7.5°	1103.3	1096.1	1100.2	1099.2	1100.2
10°	1092.1	1084.9	1091.0	1091.0	1090.0
12.5°	1076.7	1070.6	1077.8	1077.8	1078.8
15°	1059.4	1054.3	1061.4	1064.5	1065.5
17.5°	1037.9	1032.8	1042.0	1045.1	1048.1
20°	1013.4	1011.4	1020.5	1023.6	1027.7
22.5°	985.8	985.8	995.0	999.1	1005.2
25°	958.2	957.2	968.4	974.6	978.7
27.5°	925.5	926.6	940.9	947.0	952.1
30°	890.8	892.9	909.2	916.3	923.5
32.5°	854.0	858.1	876.5	884.7	891.8
35°	816.2	821.3	841.8	851.0	859.1
37.5°	778.4	785.6	807.0	816.2	825.4
40°	738.6	744.7	769.2	780.5	791.7
42.5°	697.7	705.9	730.4	746.8	760.0
45°	655.8	665.0	691.6	712.0	727.4
47.5°	614.0	626.2	651.8	679.3	692.6
50°	572.1	584.3	612.9	643.6	656.9
52.5°	529.2	541.4	574.1	605.8	620.1
55°	488.3	500.6	535.3	570.0	584.3
57.5°	445.4	458.7	497.5	533.3	547.6
60°	403.5	416.8	458.7	496.5	511.8
62.5°	362.7	377.0	420.9	460.7	476.1
65°	320.8	337.1	383.1	425.0	441.3
67.5°	279.9	298.3	346.3	390.2	407.6
70°	239.0	260.5	311.6	356.5	373.9
72.5°	199.2	222.7	276.8	321.8	331.0
75°	160.4	188.0	244.2	265.6	263.6
77.5°	123.6	154.3	207.4	211.5	217.6
80°	89.9	123.6	155.3	163.5	159.4
82.5°	59.3	93.0	111.4	107.3	106.2
85°	33.7	58.2	62.3	57.2	57.2
87.5°	14.3	23.5	20.4	15.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)