

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: P260799

Luminaire Tested: **24CZ-LD5-30SE-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3162.0 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

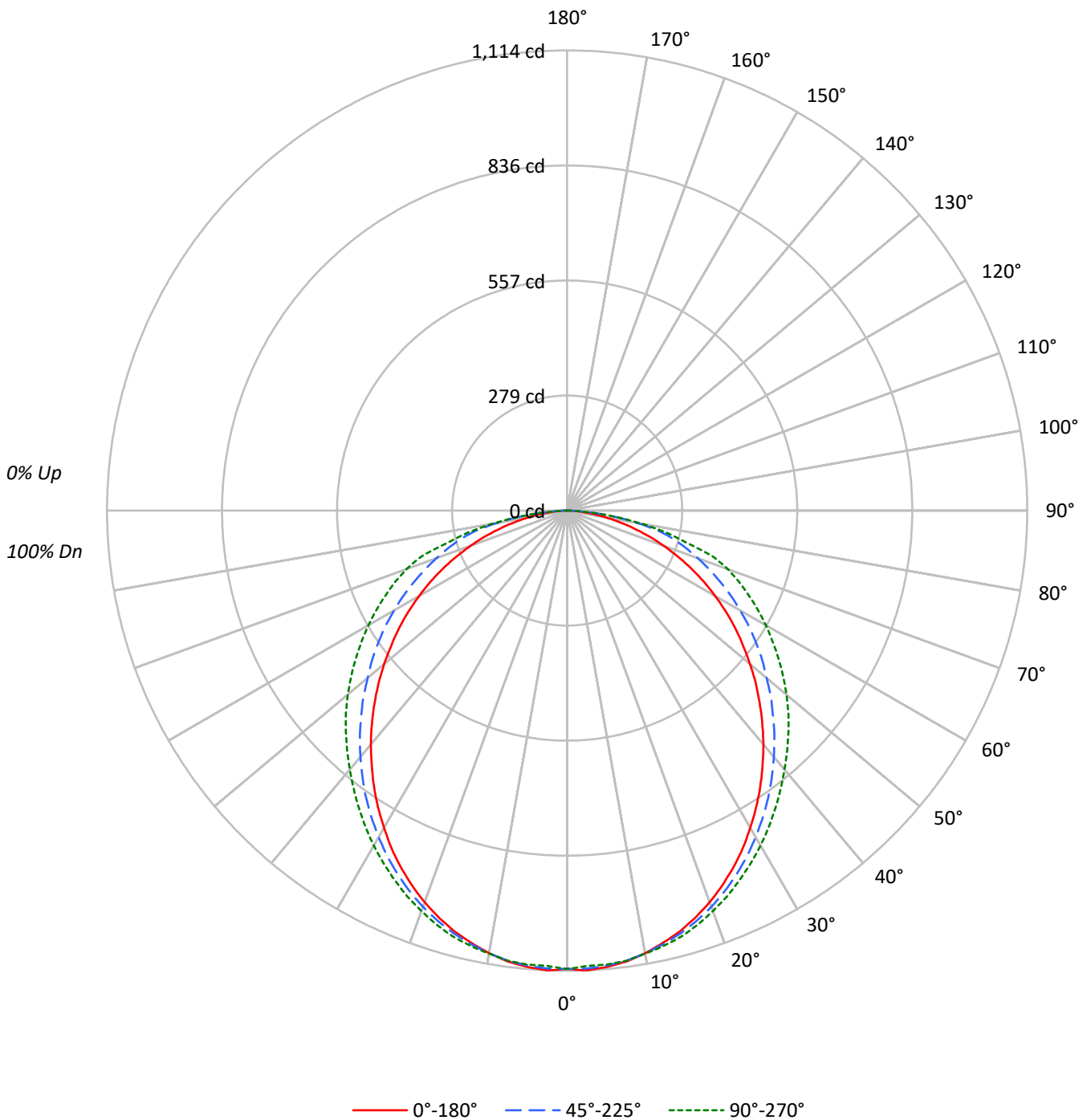
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1493	1493	1493
5°	1497	1493	1490
10°	1486	1486	1488
15°	1469	1476	1487
20°	1445	1462	1477
25°	1414	1442	1466
30°	1378	1418	1455
35°	1339	1394	1444
40°	1299	1367	1438
45°	1255	1341	1442
50°	1210	1319	1450
55°	1166	1310	1465
60°	1113	1302	1495
65°	1055	1303	1544
70°	975	1325	1627
75°	872	1384	1548
80°	730	1326	1418
85°	551	1019	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.3
10°-20°	298.5	9.4
20°-30°	446.2	14.1
30°-40°	529.3	16.7
40°-50°	544.8	17.2
50°-60°	499.8	15.8
60°-70°	404.1	12.8
70°-80°	262.3	8.3
80°-90°	72.3	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°	849.5	26.9
0°-40°	1378.8	43.6
0°-60°	2423.3	76.6
0°-90°	3162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1109	1101	1105	1104	1103	105
15°	1054	1050	1060	1064	1068	297
25°	953	954	971	980	987	439
35°	815	822	849	867	879	510
45°	659	670	705	738	758	509
55°	497	512	559	604	625	444
65°	331	351	409	463	485	327
75°	168	199	266	298	298	178
85°	36	61	66	64	63	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.7	1109.7	1109.7	1109.7	1109.7
2.5°	1114.0	1105.4	1109.7	1108.6	1103.2
5°	1108.6	1101.0	1105.4	1104.3	1103.2
7.5°	1101.0	1093.5	1098.9	1097.8	1098.9
10°	1088.0	1081.5	1088.0	1089.1	1089.1
12.5°	1071.8	1066.4	1075.1	1077.2	1079.4
15°	1054.5	1050.2	1059.9	1064.2	1067.5
17.5°	1032.8	1029.6	1041.5	1046.9	1051.2
20°	1009.0	1007.9	1020.9	1026.3	1031.7
22.5°	981.9	981.9	997.1	1003.6	1011.2
25°	952.7	953.8	971.1	979.8	987.4
27.5°	921.3	922.4	943.0	953.8	962.5
30°	886.7	891.0	912.7	926.7	936.5
32.5°	852.0	857.4	881.3	897.5	908.3
35°	815.2	821.7	848.8	867.2	879.1
37.5°	777.3	784.9	814.1	834.7	848.8
40°	739.4	748.1	778.4	802.2	818.5
42.5°	699.4	709.1	742.7	770.8	788.2
45°	659.3	670.1	704.8	738.4	757.8
47.5°	619.3	632.3	669.1	705.9	726.4
50°	578.1	591.1	630.1	672.3	692.9
52.5°	537.0	552.1	595.4	638.8	659.3
55°	496.9	512.1	558.6	604.1	624.7
57.5°	455.8	470.9	521.8	569.5	590.0
60°	413.6	430.9	483.9	532.7	555.4
62.5°	372.4	390.8	447.1	499.1	520.7
65°	331.3	350.8	409.2	463.4	485.0
67.5°	289.1	311.8	372.4	427.6	450.4
70°	247.9	272.8	336.7	391.9	413.6
72.5°	207.9	234.9	301.0	357.3	370.3
75°	167.8	199.2	266.3	297.7	297.7
77.5°	129.9	164.6	227.4	239.3	245.8
80°	94.2	132.1	171.1	185.1	183.0
82.5°	62.8	100.7	122.3	122.3	119.1
85°	35.7	60.6	66.0	63.9	62.8
87.5°	15.2	22.7	20.6	16.2	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)