

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: P263263

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-SQP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3426.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

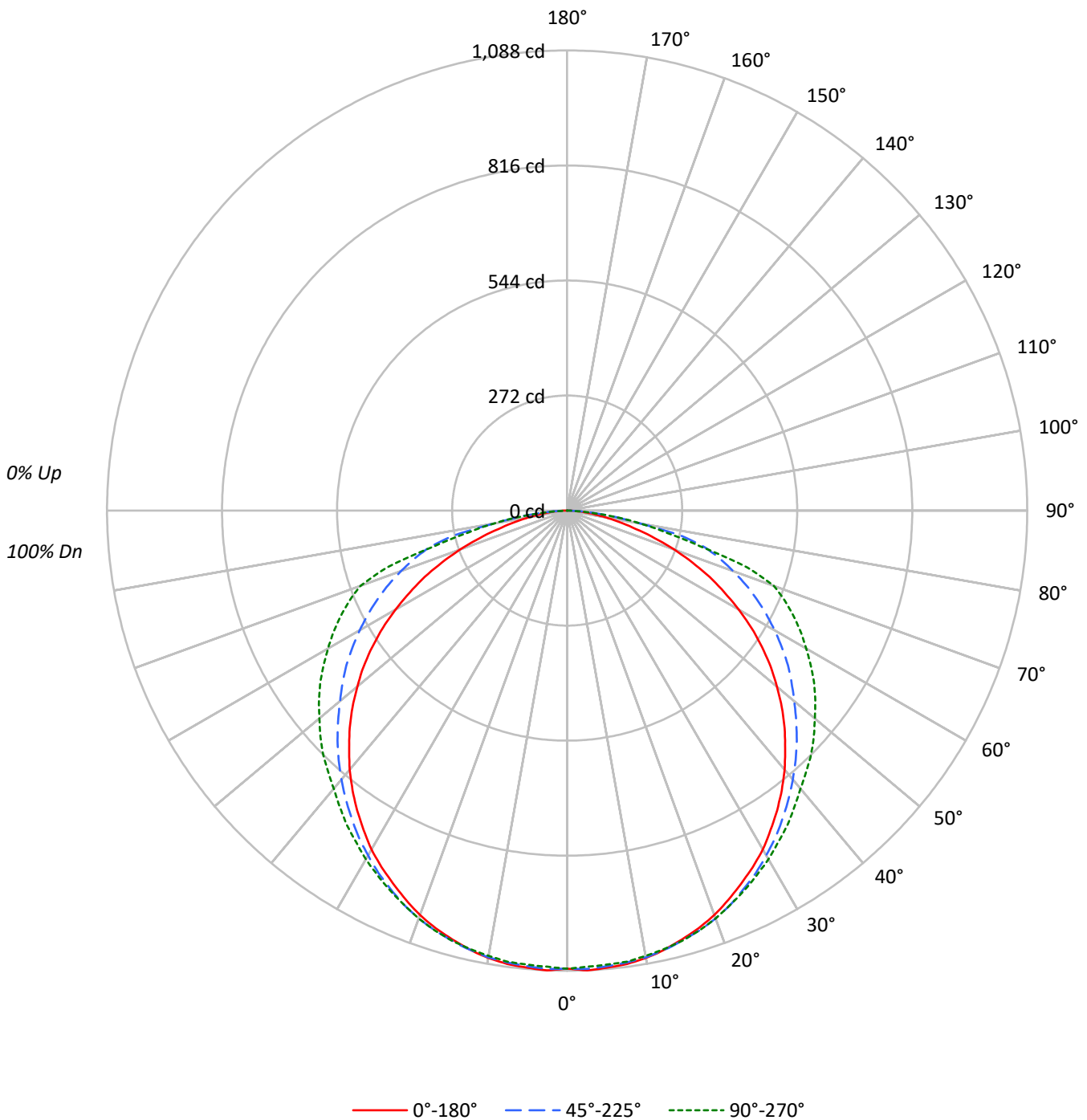
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1457	1457	1457
5°	1465	1460	1456
10°	1468	1465	1460
15°	1462	1467	1467
20°	1457	1470	1470
25°	1445	1466	1471
30°	1438	1463	1479
35°	1421	1459	1491
40°	1405	1458	1508
45°	1384	1461	1552
50°	1356	1467	1600
55°	1320	1495	1673
60°	1262	1524	1757
65°	1183	1572	1882
70°	1058	1643	2047
75°	874	1757	1693
80°	713	1358	1371
85°	574	902	848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.0
10°-20°	296.8	8.7
20°-30°	453.6	13.2
30°-40°	554.8	16.2
40°-50°	593.6	17.3
50°-60°	568.5	16.6
60°-70°	480.9	14.0
70°-80°	304.8	8.9
80°-90°	70.1	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°	853.3	24.9
0°-40°	1408.1	41.1
0°-60°	2570.2	75.0
0°-90°	3426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1085	1080	1081	1080	1078	103
15°	1049	1048	1053	1053	1053	296
25°	973	973	988	991	991	449
35°	865	871	888	901	908	541
45°	727	740	768	800	816	560
55°	563	580	637	690	713	502
65°	372	407	494	561	591	366
75°	168	237	338	336	326	183
85°	37	57	58	53	55	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1088.3	1083.0	1084.8	1083.0	1079.5
5°	1084.8	1079.5	1081.3	1079.5	1077.7
7.5°	1081.3	1075.9	1077.7	1075.9	1075.9
10°	1074.2	1068.9	1072.4	1070.6	1068.9
12.5°	1063.6	1060.0	1063.6	1061.8	1061.8
15°	1049.4	1047.6	1052.9	1052.9	1052.9
17.5°	1035.2	1033.5	1040.6	1040.6	1040.6
20°	1017.5	1015.8	1026.4	1026.4	1026.4
22.5°	996.3	994.5	1008.7	1008.7	1008.7
25°	973.3	973.3	987.5	991.0	991.0
27.5°	950.3	950.3	966.2	971.5	971.5
30°	925.5	925.5	941.5	948.5	952.1
32.5°	895.4	899.0	916.7	925.5	929.1
35°	865.4	870.7	888.4	900.7	907.8
37.5°	833.5	838.8	860.0	874.2	883.1
40°	799.9	807.0	830.0	847.7	858.3
42.5°	762.7	773.3	799.9	822.9	837.0
45°	727.3	739.7	768.0	799.9	815.8
47.5°	688.4	702.5	734.4	775.1	791.0
50°	647.7	661.8	700.8	746.8	764.5
52.5°	607.0	622.9	668.9	718.5	739.7
55°	562.7	580.4	637.1	690.2	713.2
57.5°	516.7	538.0	601.7	658.3	683.1
60°	469.0	495.5	566.3	626.5	653.0
62.5°	419.4	451.3	530.9	594.6	622.9
65°	371.6	407.0	493.7	561.0	591.1
67.5°	320.3	364.5	456.6	529.1	557.4
70°	269.0	320.3	417.6	492.0	520.3
72.5°	217.7	279.6	378.7	446.0	446.0
75°	168.1	237.1	338.0	336.2	325.6
77.5°	127.4	198.2	277.8	237.1	238.9
80°	92.0	159.3	175.2	175.2	177.0
82.5°	61.9	122.1	113.3	111.5	115.0
85°	37.2	56.6	58.4	53.1	54.9
87.5°	17.7	19.5	15.9	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)