

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: P263272

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263272
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-LD5-55-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: 3783.0 lumens
Efficiency: N/A
Efficacy: 92.2 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

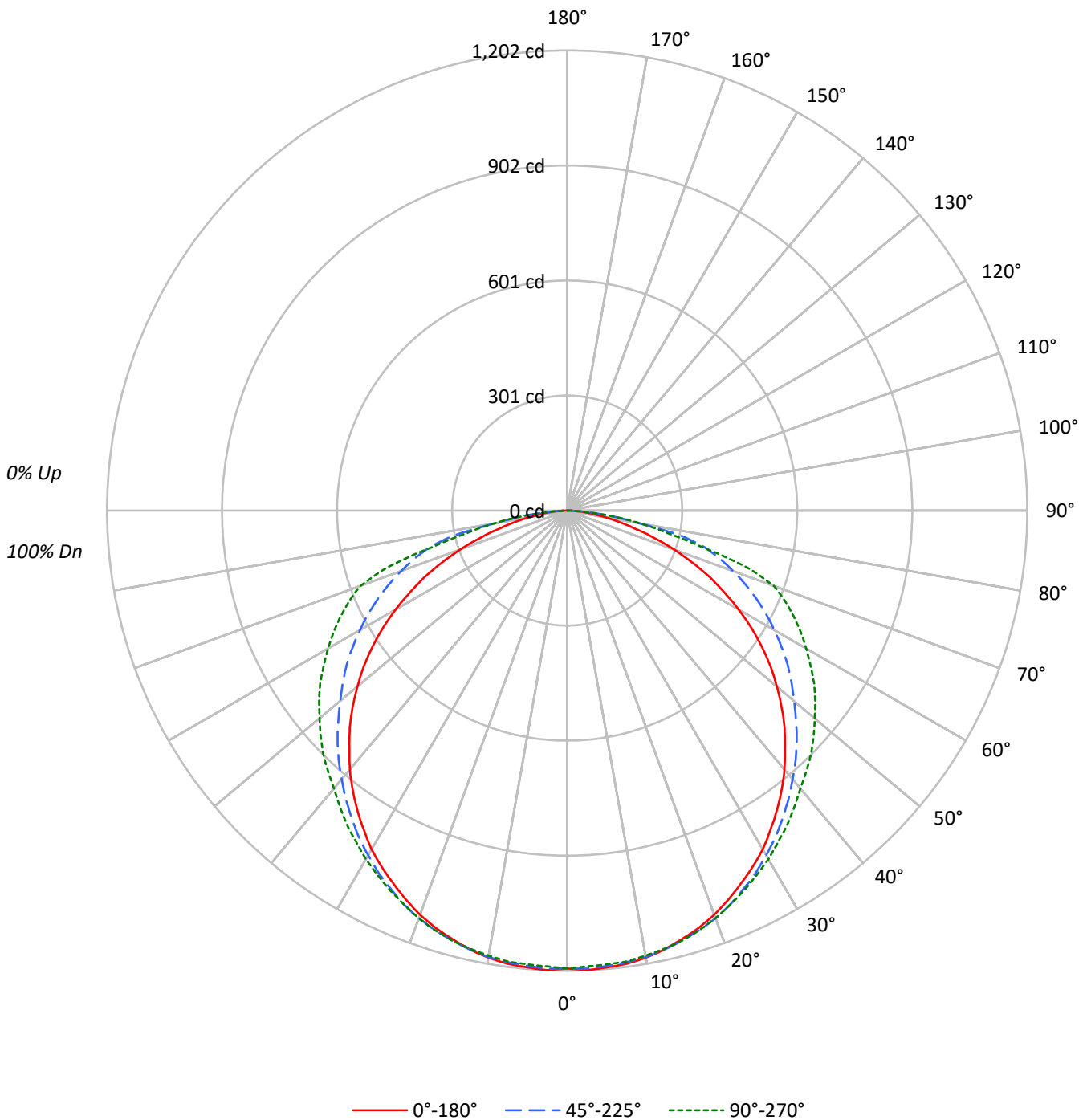
Input Watts (W): 41.013
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1609	1609	1609
5°	1618	1613	1607
10°	1621	1618	1612
15°	1614	1620	1620
20°	1609	1623	1623
25°	1595	1619	1625
30°	1588	1615	1633
35°	1569	1611	1646
40°	1551	1610	1665
45°	1528	1614	1714
50°	1497	1620	1767
55°	1458	1650	1847
60°	1393	1683	1940
65°	1307	1736	2078
70°	1168	1814	2260
75°	965	1940	1869
80°	787	1499	1514
85°	633	996	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.0
10°-20°	327.7	8.7
20°-30°	500.9	13.2
30°-40°	612.6	16.2
40°-50°	655.5	17.3
50°-60°	627.7	16.6
60°-70°	531.0	14.0
70°-80°	336.6	8.9
80°-90°	77.4	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°	942.2	24.9
0°-40°	1554.8	41.1
0°-60°	2838.0	75.0
0°-90°	3783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1198	1192	1194	1192	1190	114
15°	1159	1157	1163	1163	1163	327
25°	1075	1075	1090	1094	1094	496
35°	956	961	981	995	1002	598
45°	803	817	848	883	901	619
55°	621	641	704	762	788	554
65°	410	449	545	619	653	404
75°	186	262	373	371	360	202
85°	41	62	64	59	61	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1195.9	1195.9	1195.9	1195.9	1195.9
2.5°	1201.7	1195.9	1197.8	1195.9	1192.0
5°	1197.8	1192.0	1193.9	1192.0	1190.0
7.5°	1193.9	1188.1	1190.0	1188.1	1188.1
10°	1186.1	1180.2	1184.2	1182.2	1180.2
12.5°	1174.4	1170.5	1174.4	1172.4	1172.4
15°	1158.8	1156.8	1162.7	1162.7	1162.7
17.5°	1143.1	1141.2	1149.0	1149.0	1149.0
20°	1123.6	1121.6	1133.3	1133.3	1133.3
22.5°	1100.1	1098.2	1113.8	1113.8	1113.8
25°	1074.7	1074.7	1090.4	1094.3	1094.3
27.5°	1049.3	1049.3	1066.9	1072.8	1072.8
30°	1022.0	1022.0	1039.6	1047.4	1051.3
32.5°	988.7	992.7	1012.2	1022.0	1025.9
35°	955.5	961.4	980.9	994.6	1002.4
37.5°	920.4	926.2	949.7	965.3	975.1
40°	883.2	891.0	916.4	936.0	947.7
42.5°	842.2	853.9	883.2	908.6	924.3
45°	803.1	816.8	848.1	883.2	900.8
47.5°	760.1	775.8	810.9	855.9	873.5
50°	715.2	730.8	773.8	824.6	844.1
52.5°	670.2	687.8	738.6	793.3	816.8
55°	621.4	640.9	703.5	762.1	787.5
57.5°	570.6	594.0	664.4	726.9	754.3
60°	517.8	547.1	625.3	691.7	721.0
62.5°	463.1	498.3	586.2	656.6	687.8
65°	410.4	449.4	545.2	619.4	652.7
67.5°	353.7	402.5	504.1	584.3	615.5
70°	297.0	353.7	461.2	543.2	574.5
72.5°	240.3	308.7	418.2	492.4	492.4
75°	185.6	261.8	373.2	371.3	359.5
77.5°	140.7	218.9	306.8	261.8	263.8
80°	101.6	175.9	193.5	193.5	195.4
82.5°	68.4	134.8	125.1	123.1	127.0
85°	41.0	62.5	64.5	58.6	60.6
87.5°	19.5	21.5	17.6	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)