

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: P263244

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263244
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-LD5-40-SQP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2739.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

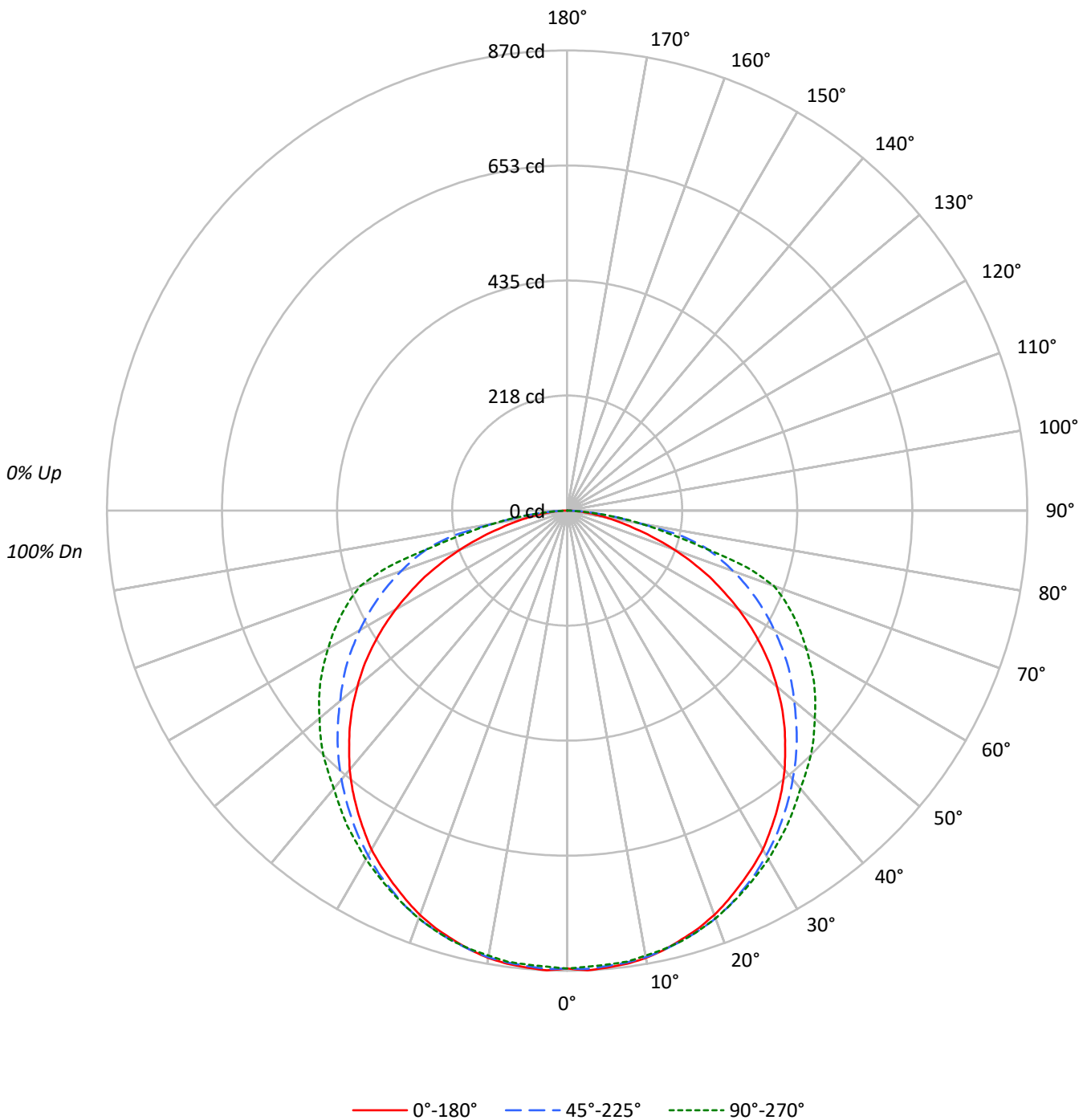
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1165	1165	1165
5°	1171	1167	1164
10°	1173	1171	1167
15°	1169	1173	1173
20°	1165	1175	1175
25°	1155	1172	1176
30°	1150	1169	1183
35°	1136	1167	1192
40°	1123	1165	1205
45°	1106	1168	1241
50°	1084	1173	1279
55°	1055	1195	1338
60°	1009	1218	1405
65°	946	1257	1504
70°	846	1314	1636
75°	699	1405	1353
80°	570	1086	1096
85°	459	721	678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	3.0
10°-20°	237.3	8.7
20°-30°	362.7	13.2
30°-40°	443.6	16.2
40°-50°	474.6	17.3
50°-60°	454.5	16.6
60°-70°	384.4	14.0
70°-80°	243.7	8.9
80°-90°	56.1	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°	682.2	24.9
0°-40°	1125.7	41.1
0°-60°	2054.8	75.0
0°-90°	2739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	867	863	864	863	862	83
15°	839	838	842	842	842	237
25°	778	778	790	792	792	359
35°	692	696	710	720	726	433
45°	582	591	614	640	652	448
55°	450	464	509	552	570	401
65°	297	325	395	448	472	293
75°	134	190	270	269	260	146
85°	30	45	47	42	44	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.8	865.8	865.8	865.8	865.8
2.5°	870.1	865.8	867.3	865.8	863.0
5°	867.3	863.0	864.4	863.0	861.6
7.5°	864.4	860.2	861.6	860.2	860.2
10°	858.8	854.5	857.4	855.9	854.5
12.5°	850.3	847.5	850.3	848.9	848.9
15°	839.0	837.6	841.8	841.8	841.8
17.5°	827.6	826.2	831.9	831.9	831.9
20°	813.5	812.1	820.6	820.6	820.6
22.5°	796.5	795.1	806.4	806.4	806.4
25°	778.1	778.1	789.5	792.3	792.3
27.5°	759.7	759.7	772.5	776.7	776.7
30°	739.9	739.9	752.7	758.3	761.2
32.5°	715.9	718.7	732.9	739.9	742.8
35°	691.8	696.1	710.2	720.1	725.8
37.5°	666.4	670.6	687.6	698.9	706.0
40°	639.5	645.1	663.5	677.7	686.2
42.5°	609.8	618.3	639.5	657.9	669.2
45°	581.5	591.4	614.0	639.5	652.2
47.5°	550.4	561.7	587.1	619.7	632.4
50°	517.8	529.1	560.3	597.0	611.2
52.5°	485.3	498.0	534.8	574.4	591.4
55°	449.9	464.0	509.3	551.8	570.2
57.5°	413.1	430.1	481.0	526.3	546.1
60°	374.9	396.1	452.7	500.8	522.1
62.5°	335.3	360.8	424.4	475.4	498.0
65°	297.1	325.4	394.7	448.5	472.5
67.5°	256.1	291.4	365.0	423.0	445.7
70°	215.0	256.1	333.9	393.3	415.9
72.5°	174.0	223.5	302.8	356.5	356.5
75°	134.4	189.6	270.2	268.8	260.3
77.5°	101.9	158.5	222.1	189.6	191.0
80°	73.6	127.3	140.1	140.1	141.5
82.5°	49.5	97.6	90.5	89.1	92.0
85°	29.7	45.3	46.7	42.4	43.9
87.5°	14.1	15.6	12.7	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)