

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: P263394

Luminaire Tested: **24CZ-LD5-50-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263394
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-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2711.0 lumens
Efficiency: N/A
Efficacy: 76.7 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

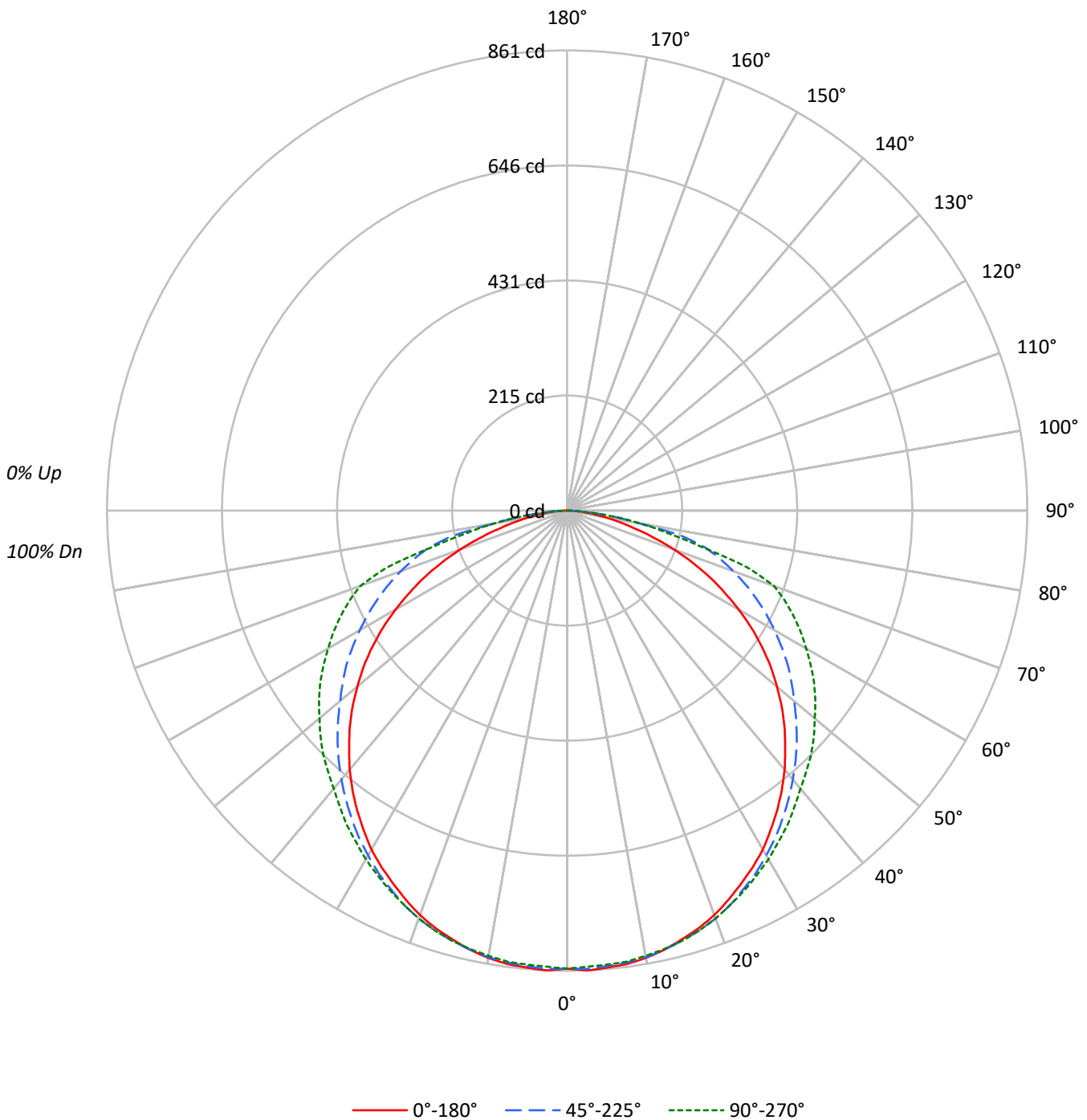
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1153	1153	1153
5°	1159	1156	1152
10°	1161	1159	1156
15°	1157	1161	1161
20°	1153	1163	1163
25°	1143	1160	1164
30°	1138	1157	1171
35°	1125	1155	1180
40°	1112	1154	1193
45°	1095	1156	1228
50°	1073	1161	1266
55°	1045	1183	1324
60°	999	1206	1390
65°	936	1244	1489
70°	837	1300	1620
75°	691	1391	1340
80°	564	1074	1085
85°	454	713	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	3.0
10°-20°	234.9	8.7
20°-30°	359.0	13.2
30°-40°	439.0	16.2
40°-50°	469.7	17.3
50°-60°	449.8	16.6
60°-70°	380.5	14.0
70°-80°	241.2	8.9
80°-90°	55.5	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°	675.2	24.9
0°-40°	1114.3	41.1
0°-60°	2033.8	75.0
0°-90°	2711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	858	854	856	854	853	82
15°	830	829	833	833	833	235
25°	770	770	781	784	784	355
35°	685	689	703	713	718	428
45°	576	585	608	633	646	443
55°	445	459	504	546	564	397
65°	294	322	391	444	468	290
75°	133	188	268	266	258	145
85°	29	45	46	42	43	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.0	857.0	857.0	857.0	857.0
2.5°	861.2	857.0	858.4	857.0	854.2
5°	858.4	854.2	855.6	854.2	852.8
7.5°	855.6	851.4	852.8	851.4	851.4
10°	850.0	845.8	848.6	847.2	845.8
12.5°	841.6	838.8	841.6	840.2	840.2
15°	830.4	829.0	833.2	833.2	833.2
17.5°	819.2	817.8	823.4	823.4	823.4
20°	805.2	803.8	812.2	812.2	812.2
22.5°	788.4	787.0	798.2	798.2	798.2
25°	770.2	770.2	781.4	784.2	784.2
27.5°	752.0	752.0	764.6	768.8	768.8
30°	732.4	732.4	745.0	750.6	753.4
32.5°	708.6	711.4	725.4	732.4	735.2
35°	684.8	689.0	703.0	712.8	718.4
37.5°	659.6	663.8	680.6	691.8	698.8
40°	632.9	638.5	656.8	670.8	679.2
42.5°	603.5	611.9	632.9	651.2	662.4
45°	575.5	585.3	607.7	632.9	645.5
47.5°	544.7	555.9	581.1	613.3	625.9
50°	512.5	523.7	554.5	590.9	604.9
52.5°	480.3	492.9	529.3	568.5	585.3
55°	445.3	459.3	504.1	546.1	564.3
57.5°	408.9	425.7	476.1	520.9	540.5
60°	371.1	392.1	448.1	495.7	516.7
62.5°	331.9	357.1	420.1	470.5	492.9
65°	294.1	322.1	390.7	443.9	467.7
67.5°	253.5	288.5	361.3	418.7	441.1
70°	212.8	253.5	330.5	389.3	411.7
72.5°	172.2	221.3	299.7	352.9	352.9
75°	133.0	187.6	267.5	266.1	257.7
77.5°	100.8	156.8	219.9	187.6	189.0
80°	72.8	126.0	138.6	138.6	140.0
82.5°	49.0	96.6	89.6	88.2	91.0
85°	29.4	44.8	46.2	42.0	43.4
87.5°	14.0	15.4	12.6	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)