

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: P263373

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263373
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-LD5-35-SQP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2196.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

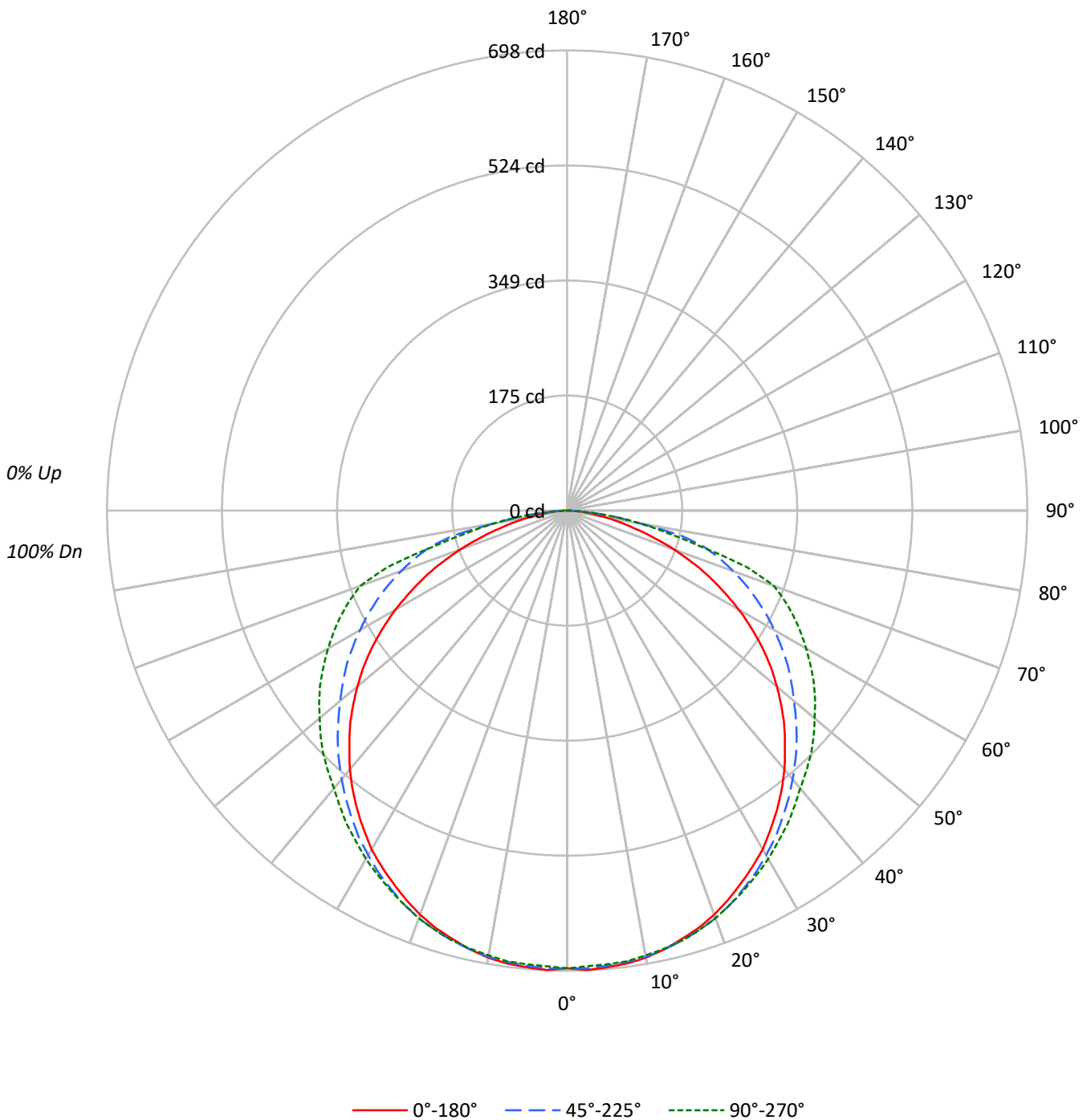
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	934	934	934
5°	939	936	933
10°	941	939	936
15°	937	940	940
20°	934	942	942
25°	926	940	943
30°	922	938	948
35°	911	935	956
40°	901	934	966
45°	887	937	995
50°	869	940	1026
55°	846	958	1072
60°	809	977	1126
65°	758	1008	1206
70°	678	1053	1312
75°	560	1127	1085
80°	457	870	879
85°	367	577	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.0
10°-20°	190.2	8.7
20°-30°	290.8	13.2
30°-40°	355.6	16.2
40°-50°	380.5	17.3
50°-60°	364.4	16.6
60°-70°	308.2	14.0
70°-80°	195.4	8.9
80°-90°	44.9	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°	546.9	24.9
0°-40°	902.6	41.1
0°-60°	1647.4	75.0
0°-90°	2196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	695	692	693	692	691	66
15°	673	672	675	675	675	190
25°	624	624	633	635	635	288
35°	555	558	569	577	582	347
45°	466	474	492	513	523	359
55°	361	372	408	442	457	322
65°	238	261	316	360	379	235
75°	108	152	217	216	209	117
85°	24	36	37	34	35	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.2	694.2	694.2	694.2	694.2
2.5°	697.6	694.2	695.3	694.2	691.9
5°	695.3	691.9	693.1	691.9	690.8
7.5°	693.1	689.7	690.8	689.7	689.7
10°	688.5	685.1	687.4	686.3	685.1
12.5°	681.7	679.5	681.7	680.6	680.6
15°	672.6	671.5	674.9	674.9	674.9
17.5°	663.6	662.4	667.0	667.0	667.0
20°	652.2	651.1	657.9	657.9	657.9
22.5°	638.6	637.5	646.6	646.6	646.6
25°	623.9	623.9	632.9	635.2	635.2
27.5°	609.1	609.1	619.3	622.7	622.7
30°	593.2	593.2	603.5	608.0	610.3
32.5°	574.0	576.2	587.6	593.2	595.5
35°	554.7	558.1	569.4	577.4	581.9
37.5°	534.3	537.7	551.3	560.3	566.0
40°	512.7	517.2	532.0	543.3	550.1
42.5°	488.9	495.7	512.7	527.5	536.5
45°	466.2	474.1	492.3	512.7	522.9
47.5°	441.2	450.3	470.7	496.8	507.0
50°	415.2	424.2	449.2	478.7	490.0
52.5°	389.1	399.3	428.8	460.5	474.1
55°	360.7	372.1	408.4	442.4	457.1
57.5°	331.2	344.8	385.7	422.0	437.8
60°	300.6	317.6	363.0	401.5	418.6
62.5°	268.8	289.2	340.3	381.1	399.3
65°	238.2	260.9	316.5	359.6	378.9
67.5°	205.3	233.7	292.7	339.2	357.3
70°	172.4	205.3	267.7	315.3	333.5
72.5°	139.5	179.2	242.7	285.8	285.8
75°	107.8	152.0	216.7	215.5	208.7
77.5°	81.7	127.0	178.1	152.0	153.1
80°	59.0	102.1	112.3	112.3	113.4
82.5°	39.7	78.3	72.6	71.5	73.7
85°	23.8	36.3	37.4	34.0	35.2
87.5°	11.3	12.5	10.2	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)