

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: P263658

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2550.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

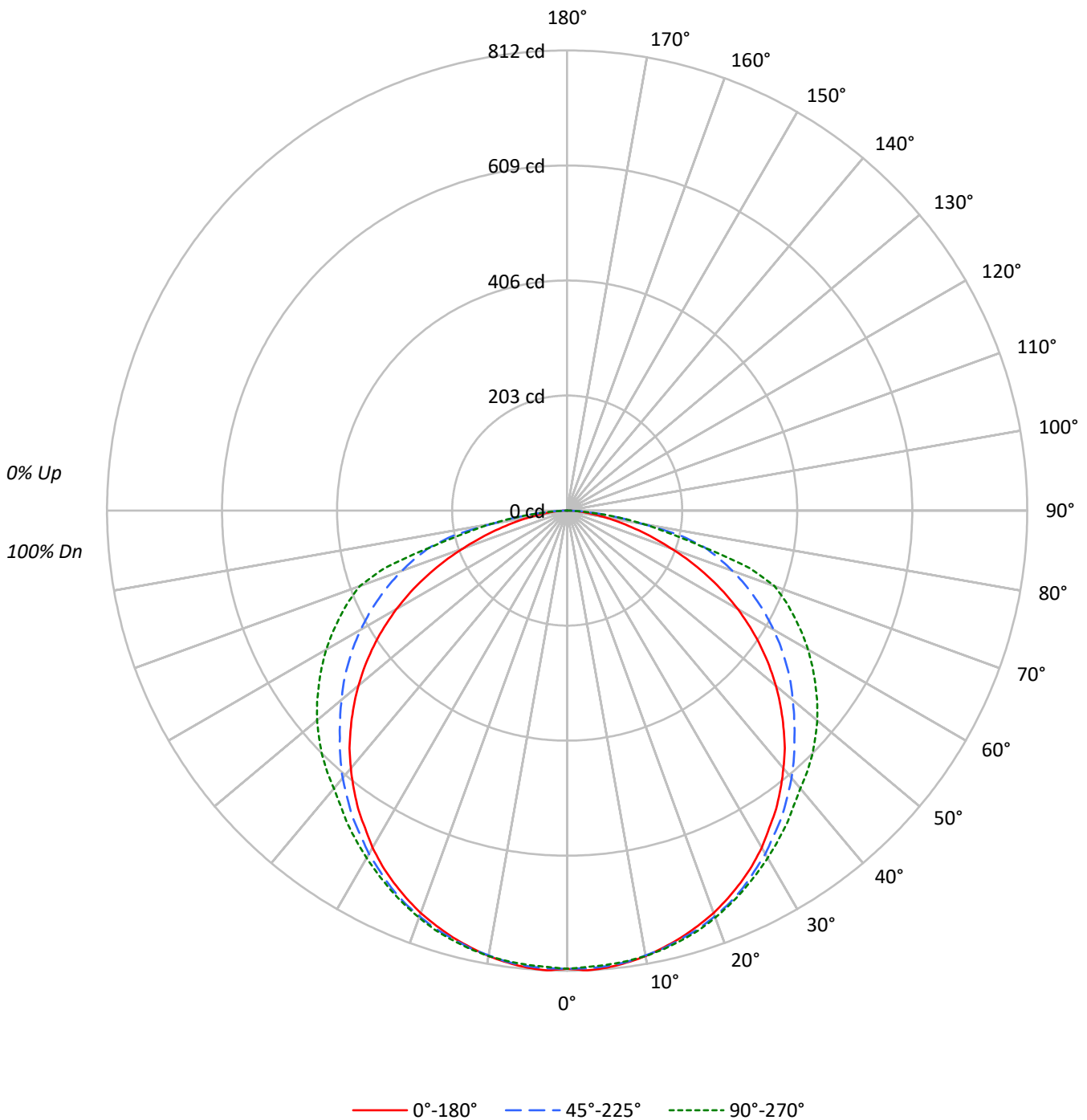
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1088	1088	1088
5°	1093	1090	1087
10°	1091	1089	1091
15°	1086	1089	1093
20°	1082	1091	1094
25°	1075	1090	1096
30°	1067	1086	1100
35°	1056	1085	1109
40°	1043	1082	1124
45°	1027	1080	1163
50°	1006	1088	1206
55°	977	1107	1254
60°	936	1132	1321
65°	871	1167	1407
70°	770	1220	1531
75°	646	1305	1286
80°	515	1031	1070
85°	408	698	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	3.0
10°-20°	220.7	8.7
20°-30°	337.0	13.2
30°-40°	412.1	16.2
40°-50°	441.1	17.3
50°-60°	423.1	16.6
60°-70°	357.2	14.0
70°-80°	228.3	9.0
80°-90°	54.0	2.1
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°	634.4	24.9
0°-40°	1046.4	41.0
0°-60°	1910.5	74.9
0°-90°	2550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	810	805	807	806	805	77
15°	780	777	782	784	784	220
25°	724	723	734	737	738	334
35°	643	648	660	669	675	402
45°	540	548	567	594	611	416
55°	417	430	472	515	535	372
65°	274	300	366	418	442	270
75°	124	177	251	256	247	134
85°	26	44	45	44	41	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.4	808.4	808.4	808.4	808.4
2.5°	812.1	807.1	808.4	808.4	805.9
5°	809.6	804.6	807.1	805.9	804.6
7.5°	804.6	800.8	803.4	803.4	802.1
10°	798.3	794.6	797.1	798.3	798.3
12.5°	789.5	787.0	790.8	790.8	792.1
15°	779.5	777.0	782.0	784.5	784.5
17.5°	768.2	766.9	773.2	774.5	775.7
20°	755.7	754.4	761.9	761.9	764.4
22.5°	740.6	739.3	749.4	749.4	751.9
25°	724.3	723.0	734.3	736.8	738.1
27.5°	706.7	705.4	716.7	720.5	723.0
30°	686.6	686.6	699.2	704.2	708.0
32.5°	664.0	667.8	679.1	686.6	691.6
35°	642.7	647.7	660.3	669.0	675.3
37.5°	618.8	623.9	637.7	649.0	656.5
40°	593.7	600.0	616.3	628.9	640.2
42.5°	568.6	574.9	592.5	611.3	626.4
45°	539.8	548.5	567.4	593.7	611.3
47.5°	510.9	519.7	543.5	576.2	593.7
50°	480.8	490.8	519.7	557.3	576.2
52.5°	449.4	460.7	497.1	537.2	556.1
55°	416.7	430.5	472.0	514.6	534.7
57.5°	382.8	397.9	446.9	492.1	513.4
60°	347.7	366.5	420.5	468.2	490.8
62.5°	311.3	333.9	394.1	443.1	466.9
65°	273.6	300.0	366.5	418.0	441.8
67.5°	234.7	269.9	338.9	392.9	416.7
70°	195.8	237.2	310.0	365.3	389.1
72.5°	159.4	207.1	281.2	332.6	337.7
75°	124.3	177.0	251.0	256.1	247.3
77.5°	92.9	146.9	207.1	184.5	183.3
80°	66.5	118.0	133.1	136.8	138.1
82.5°	43.9	89.1	86.6	89.1	87.9
85°	26.4	43.9	45.2	43.9	41.4
87.5°	12.6	16.3	12.6	11.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)