

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: P263651

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263651
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2244.0 lumens
Efficiency: N/A
Efficacy: 92.8 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

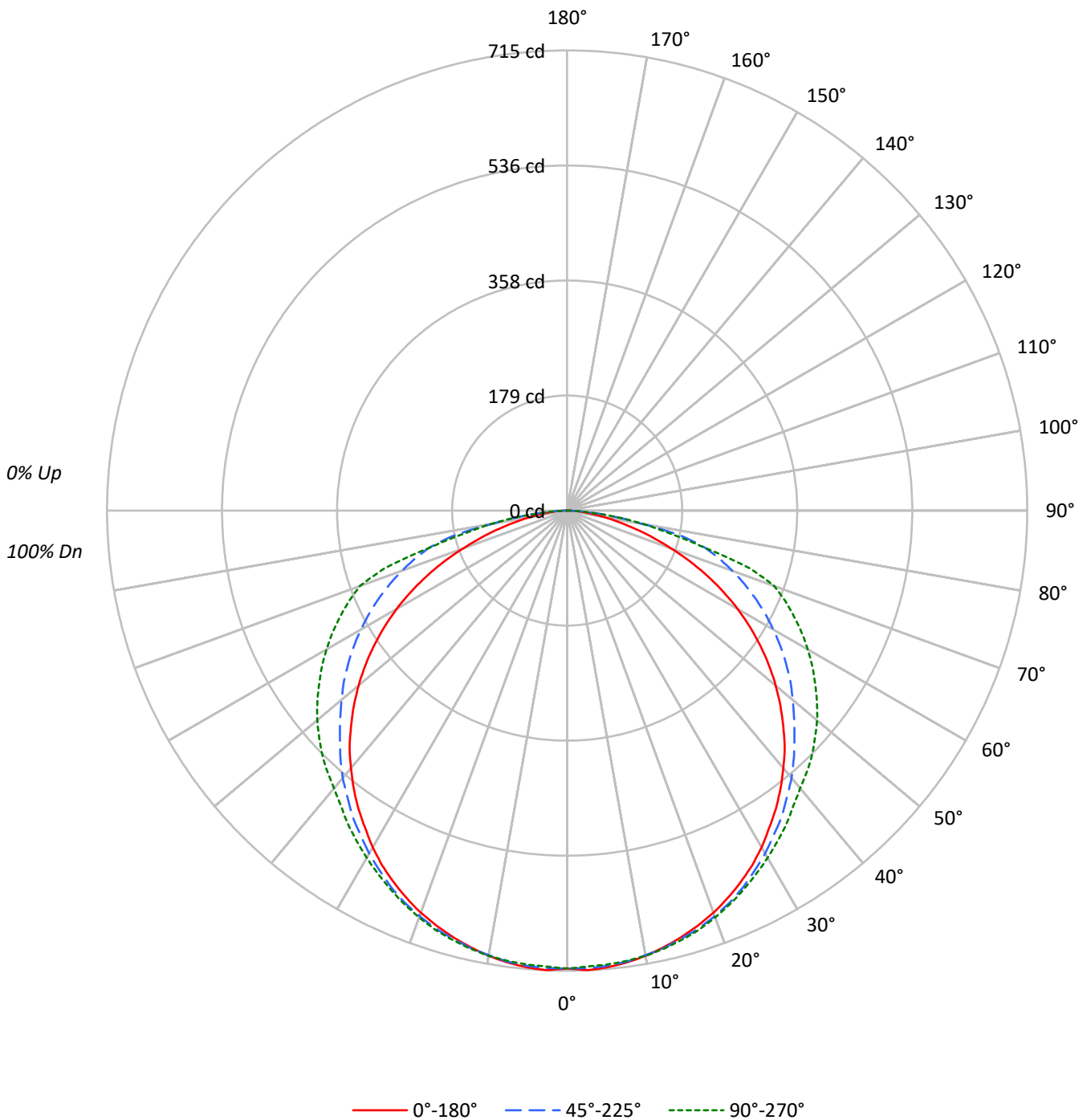
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	957	957	957
5°	962	959	956
10°	960	958	960
15°	956	959	962
20°	952	960	963
25°	946	959	964
30°	939	956	968
35°	929	954	976
40°	918	953	989
45°	904	950	1024
50°	886	957	1061
55°	860	974	1104
60°	823	996	1162
65°	767	1027	1238
70°	678	1073	1347
75°	569	1148	1131
80°	453	907	941
85°	358	614	563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.0
10°-20°	194.2	8.7
20°-30°	296.6	13.2
30°-40°	362.6	16.2
40°-50°	388.1	17.3
50°-60°	372.3	16.6
60°-70°	314.3	14.0
70°-80°	200.9	9.0
80°-90°	47.5	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°	558.2	24.9
0°-40°	920.9	41.0
0°-60°	1681.3	74.9
0°-90°	2244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	712	708	710	709	708	68
15°	686	684	688	690	690	194
25°	637	636	646	648	650	294
35°	566	570	581	589	594	354
45°	475	483	499	522	538	366
55°	367	379	415	453	471	327
65°	241	264	322	368	389	237
75°	109	156	221	225	218	118
85°	23	39	40	39	36	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.4	711.4	711.4	711.4	711.4
2.5°	714.7	710.3	711.4	711.4	709.2
5°	712.5	708.1	710.3	709.2	708.1
7.5°	708.1	704.7	706.9	706.9	705.8
10°	702.5	699.2	701.4	702.5	702.5
12.5°	694.8	692.6	695.9	695.9	697.0
15°	686.0	683.8	688.2	690.4	690.4
17.5°	676.0	674.9	680.4	681.5	682.6
20°	665.0	663.9	670.5	670.5	672.7
22.5°	651.7	650.6	659.5	659.5	661.7
25°	637.4	636.3	646.2	648.4	649.5
27.5°	621.9	620.8	630.7	634.0	636.3
30°	604.2	604.2	615.3	619.7	623.0
32.5°	584.3	587.7	597.6	604.2	608.6
35°	565.6	570.0	581.0	588.8	594.3
37.5°	544.6	549.0	561.1	571.1	577.7
40°	522.5	528.0	542.4	553.4	563.3
42.5°	500.4	505.9	521.4	537.9	551.2
45°	475.0	482.7	499.3	522.5	537.9
47.5°	449.6	457.3	478.3	507.0	522.5
50°	423.1	431.9	457.3	490.4	507.0
52.5°	395.4	405.4	437.4	472.8	489.3
55°	366.7	378.9	415.3	452.9	470.6
57.5°	336.9	350.2	393.2	433.0	451.8
60°	306.0	322.5	370.0	412.0	431.9
62.5°	273.9	293.8	346.8	389.9	410.9
65°	240.8	264.0	322.5	367.8	388.8
67.5°	206.6	237.5	298.2	345.7	366.7
70°	172.3	208.8	272.8	321.4	342.4
72.5°	140.3	182.3	247.4	292.7	297.1
75°	109.4	155.7	220.9	225.3	217.6
77.5°	81.7	129.2	182.3	162.4	161.3
80°	58.5	103.8	117.1	120.4	121.5
82.5°	38.7	78.4	76.2	78.4	77.3
85°	23.2	38.7	39.8	38.7	36.5
87.5°	11.0	14.4	11.0	9.9	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)