

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: P263797

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263797
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-LD5-40-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2422.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

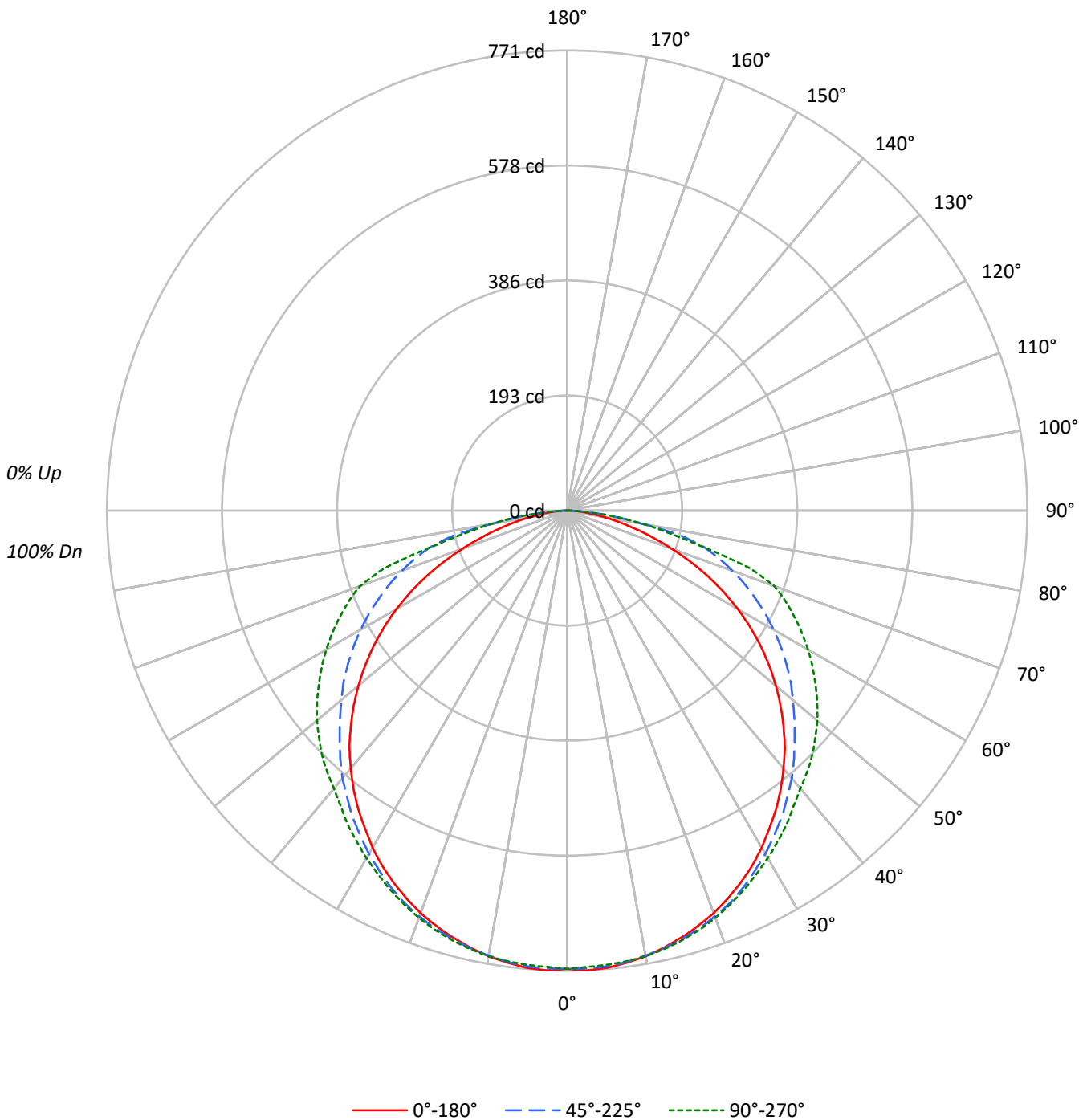
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1033	1033	1033
5°	1039	1035	1032
10°	1036	1034	1036
15°	1031	1035	1038
20°	1028	1036	1040
25°	1021	1035	1041
30°	1013	1032	1045
35°	1003	1030	1054
40°	990	1028	1068
45°	976	1025	1105
50°	956	1033	1145
55°	928	1052	1191
60°	889	1075	1255
65°	827	1108	1336
70°	732	1159	1454
75°	613	1239	1221
80°	490	979	1016
85°	386	662	607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.0
10°-20°	209.6	8.7
20°-30°	320.1	13.2
30°-40°	391.4	16.2
40°-50°	418.9	17.3
50°-60°	401.8	16.6
60°-70°	339.3	14.0
70°-80°	216.8	9.0
80°-90°	51.3	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°	602.5	24.9
0°-40°	993.9	41.0
0°-60°	1814.6	74.9
0°-90°	2422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	769	764	767	765	764	73
15°	740	738	743	745	745	209
25°	688	687	698	700	701	317
35°	610	615	627	636	641	382
45°	513	521	539	564	581	395
55°	396	409	448	489	508	353
65°	260	285	348	397	420	256
75°	118	168	238	243	235	127
85°	25	42	43	42	39	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.8	767.8	767.8	767.8	767.8
2.5°	771.4	766.6	767.8	767.8	765.4
5°	769.0	764.2	766.6	765.4	764.2
7.5°	764.2	760.6	763.0	763.0	761.8
10°	758.3	754.7	757.1	758.3	758.3
12.5°	749.9	747.5	751.1	751.1	752.3
15°	740.4	738.0	742.8	745.1	745.1
17.5°	729.6	728.5	734.4	735.6	736.8
20°	717.7	716.5	723.7	723.7	726.1
22.5°	703.4	702.2	711.8	711.8	714.1
25°	687.9	686.7	697.5	699.8	701.0
27.5°	671.2	670.0	680.8	684.3	686.7
30°	652.1	652.1	664.1	668.8	672.4
32.5°	630.7	634.3	645.0	652.1	656.9
35°	610.4	615.2	627.1	635.5	641.4
37.5°	587.8	592.5	605.7	616.4	623.5
40°	563.9	569.9	585.4	597.3	608.0
42.5°	540.1	546.0	562.7	580.6	594.9
45°	512.7	521.0	538.9	563.9	580.6
47.5°	485.2	493.6	516.2	547.2	563.9
50°	456.6	466.2	493.6	529.3	547.2
52.5°	426.8	437.5	472.1	510.3	528.2
55°	395.8	408.9	448.3	488.8	507.9
57.5°	363.6	377.9	424.4	467.4	487.6
60°	330.2	348.1	399.4	444.7	466.2
62.5°	295.7	317.1	374.4	420.9	443.5
65°	259.9	284.9	348.1	397.0	419.7
67.5°	222.9	256.3	321.9	373.2	395.8
70°	186.0	225.3	294.5	346.9	369.6
72.5°	151.4	196.7	267.1	315.9	320.7
75°	118.0	168.1	238.4	243.2	234.9
77.5°	88.2	139.5	196.7	175.3	174.1
80°	63.2	112.1	126.4	130.0	131.1
82.5°	41.7	84.6	82.3	84.6	83.5
85°	25.0	41.7	42.9	41.7	39.3
87.5°	11.9	15.5	11.9	10.7	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)