

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: P263890

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263890
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-LD5-40SE-RDP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2601.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

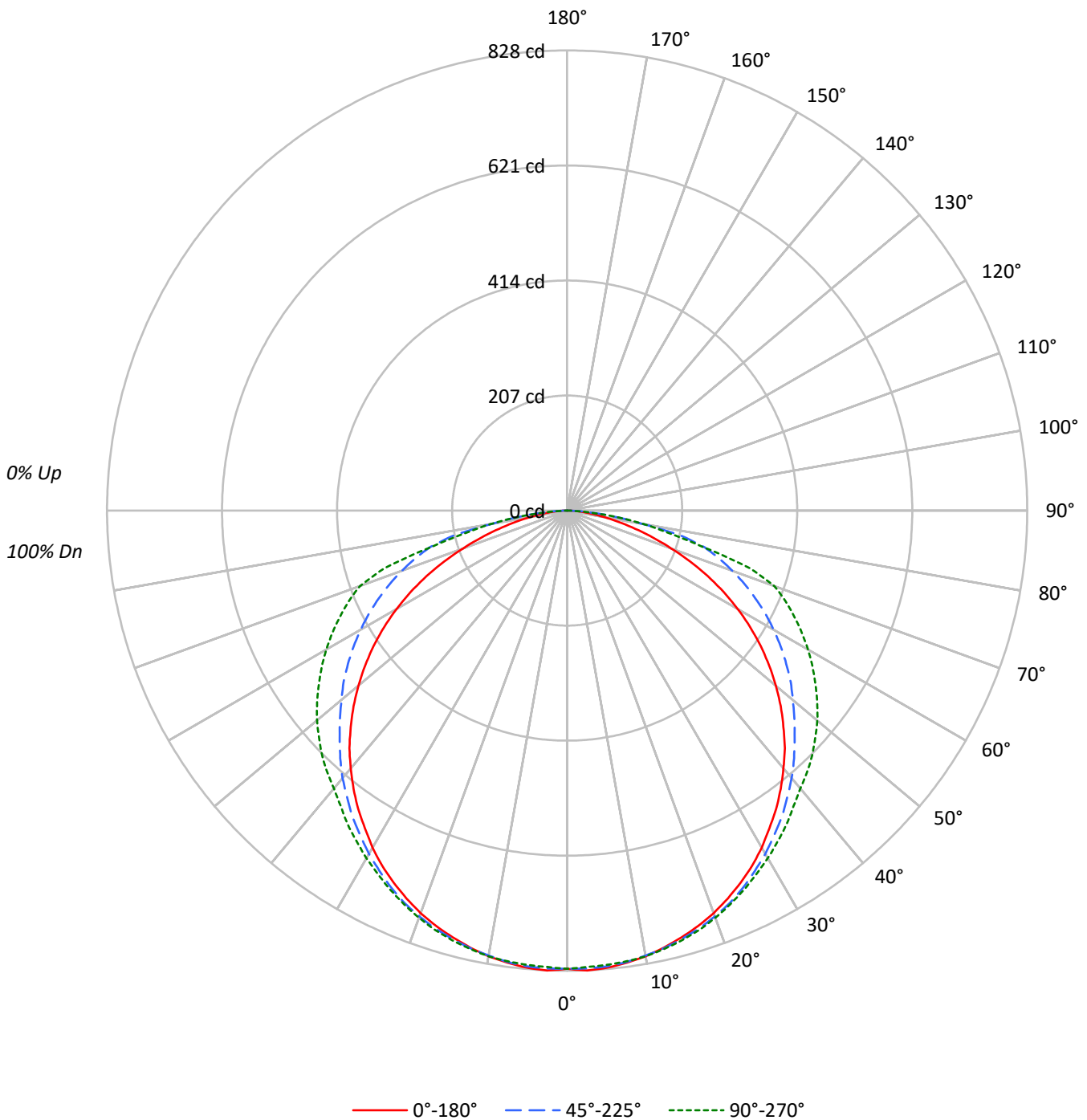
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1109	1109	1109
5°	1115	1112	1108
10°	1113	1111	1113
15°	1108	1111	1115
20°	1104	1113	1116
25°	1097	1112	1118
30°	1088	1108	1122
35°	1077	1106	1131
40°	1064	1104	1147
45°	1047	1101	1186
50°	1027	1110	1230
55°	997	1129	1279
60°	954	1154	1347
65°	889	1190	1435
70°	786	1244	1561
75°	659	1331	1311
80°	526	1051	1091
85°	415	712	653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	3.0
10°-20°	225.1	8.7
20°-30°	343.8	13.2
30°-40°	420.3	16.2
40°-50°	449.9	17.3
50°-60°	431.5	16.6
60°-70°	364.4	14.0
70°-80°	232.9	9.0
80°-90°	55.1	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°	647.1	24.9
0°-40°	1067.3	41.0
0°-60°	1948.7	74.9
0°-90°	2601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	826	821	823	822	821	78
15°	795	792	798	800	800	224
25°	739	738	749	752	753	340
35°	656	661	674	682	689	410
45°	550	560	579	606	624	425
55°	425	439	481	525	545	379
65°	279	306	374	426	451	275
75°	127	180	256	261	252	136
85°	27	45	46	45	42	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.5	824.5	824.5	824.5	824.5
2.5°	828.4	823.3	824.5	824.5	822.0
5°	825.8	820.7	823.3	822.0	820.7
7.5°	820.7	816.9	819.4	819.4	818.1
10°	814.3	810.5	813.0	814.3	814.3
12.5°	805.3	802.8	806.6	806.6	807.9
15°	795.1	792.5	797.7	800.2	800.2
17.5°	783.6	782.3	788.7	790.0	791.2
20°	770.8	769.5	777.2	777.2	779.7
22.5°	755.4	754.1	764.4	764.4	766.9
25°	738.8	737.5	749.0	751.6	752.8
27.5°	720.8	719.6	731.1	734.9	737.5
30°	700.3	700.3	713.1	718.3	722.1
32.5°	677.3	681.1	692.7	700.3	705.5
35°	655.5	660.7	673.5	682.4	688.8
37.5°	631.2	636.3	650.4	661.9	669.6
40°	605.6	612.0	628.6	641.5	653.0
42.5°	580.0	586.4	604.3	623.5	638.9
45°	550.5	559.5	578.7	605.6	623.5
47.5°	521.1	530.1	554.4	587.7	605.6
50°	490.4	500.6	530.1	568.5	587.7
52.5°	458.4	469.9	507.0	548.0	567.2
55°	425.1	439.2	481.4	524.9	545.4
57.5°	390.5	405.9	455.8	501.9	523.7
60°	354.7	373.9	428.9	477.6	500.6
62.5°	317.5	340.6	402.0	452.0	476.3
65°	279.1	306.0	373.9	426.4	450.7
67.5°	239.4	275.3	345.7	400.7	425.1
70°	199.7	242.0	316.2	372.6	396.9
72.5°	162.6	211.3	286.8	339.3	344.4
75°	126.8	180.5	256.1	261.2	252.2
77.5°	94.7	149.8	211.3	188.2	186.9
80°	67.9	120.4	135.7	139.6	140.8
82.5°	44.8	90.9	88.3	90.9	89.6
85°	26.9	44.8	46.1	44.8	42.3
87.5°	12.8	16.6	12.8	11.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)