

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: P263242

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263242
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-LD5-40-SQP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2633.0 lumens
Efficiency: N/A
Efficacy: 92.8 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

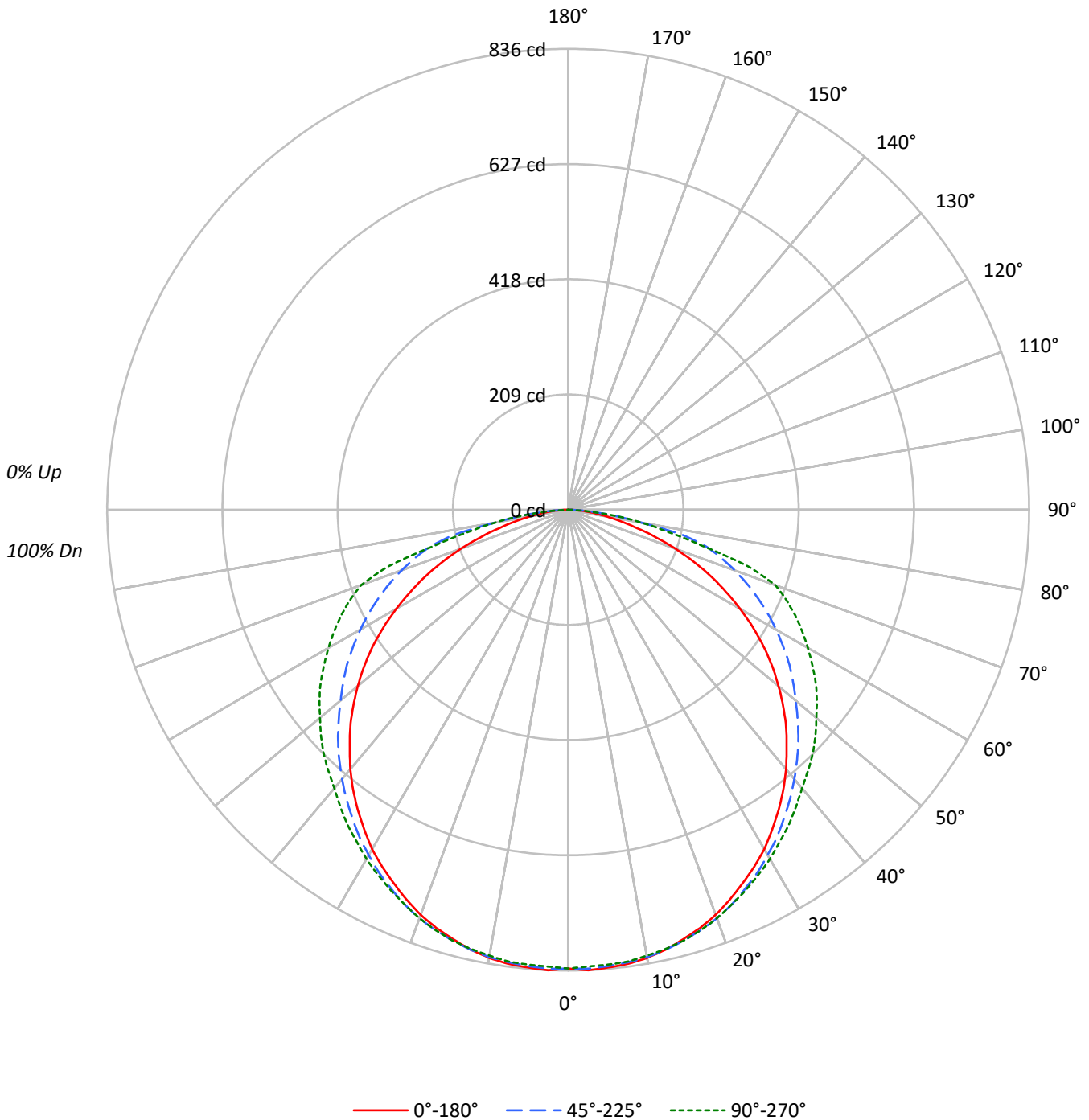
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1120	1120	1120
5°	1126	1122	1119
10°	1128	1126	1122
15°	1123	1127	1127
20°	1120	1129	1129
25°	1110	1127	1131
30°	1105	1124	1137
35°	1092	1121	1146
40°	1080	1120	1159
45°	1064	1123	1193
50°	1042	1127	1230
55°	1015	1148	1286
60°	970	1171	1351
65°	909	1208	1446
70°	813	1263	1573
75°	672	1351	1301
80°	548	1043	1054
85°	442	693	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	3.0
10°-20°	228.1	8.7
20°-30°	348.6	13.2
30°-40°	426.4	16.2
40°-50°	456.2	17.3
50°-60°	436.9	16.6
60°-70°	369.6	14.0
70°-80°	234.2	8.9
80°-90°	53.9	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°	655.8	24.9
0°-40°	1082.2	41.1
0°-60°	1975.3	75.0
0°-90°	2633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	834	830	831	830	828	79
15°	806	805	809	809	809	228
25°	748	748	759	762	762	345
35°	665	669	683	692	698	416
45°	559	568	590	615	627	431
55°	432	446	490	530	548	386
65°	286	313	379	431	454	281
75°	129	182	260	258	250	140
85°	29	44	45	41	42	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.3	832.3	832.3	832.3	832.3
2.5°	836.4	832.3	833.7	832.3	829.6
5°	833.7	829.6	831.0	829.6	828.3
7.5°	831.0	826.9	828.3	826.9	826.9
10°	825.5	821.5	824.2	822.8	821.5
12.5°	817.4	814.7	817.4	816.0	816.0
15°	806.5	805.1	809.2	809.2	809.2
17.5°	795.6	794.3	799.7	799.7	799.7
20°	782.0	780.7	788.8	788.8	788.8
22.5°	765.7	764.3	775.2	775.2	775.2
25°	748.0	748.0	758.9	761.6	761.6
27.5°	730.3	730.3	742.6	746.7	746.7
30°	711.3	711.3	723.5	729.0	731.7
32.5°	688.2	690.9	704.5	711.3	714.0
35°	665.1	669.1	682.7	692.3	697.7
37.5°	640.6	644.7	661.0	671.9	678.7
40°	614.7	620.2	637.9	651.5	659.6
42.5°	586.2	594.3	614.7	632.4	643.3
45°	559.0	568.5	590.3	614.7	627.0
47.5°	529.1	539.9	564.4	595.7	607.9
50°	497.8	508.7	538.6	573.9	587.5
52.5°	466.5	478.7	514.1	552.2	568.5
55°	432.5	446.1	489.6	530.4	548.1
57.5°	397.1	413.5	462.4	505.9	525.0
60°	360.4	380.8	435.2	481.5	501.9
62.5°	322.3	346.8	408.0	457.0	478.7
65°	285.6	312.8	379.4	431.1	454.3
67.5°	246.2	280.2	350.9	406.7	428.4
70°	206.7	246.2	321.0	378.1	399.8
72.5°	167.3	214.9	291.0	342.7	342.7
75°	129.2	182.2	259.8	258.4	250.2
77.5°	97.9	152.3	213.5	182.2	183.6
80°	70.7	122.4	134.6	134.6	136.0
82.5°	47.6	93.8	87.0	85.7	88.4
85°	28.6	43.5	44.9	40.8	42.2
87.5°	13.6	15.0	12.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)