

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: P263379

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263379
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-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2443.0 lumens
Efficiency: N/A
Efficacy: 84.7 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

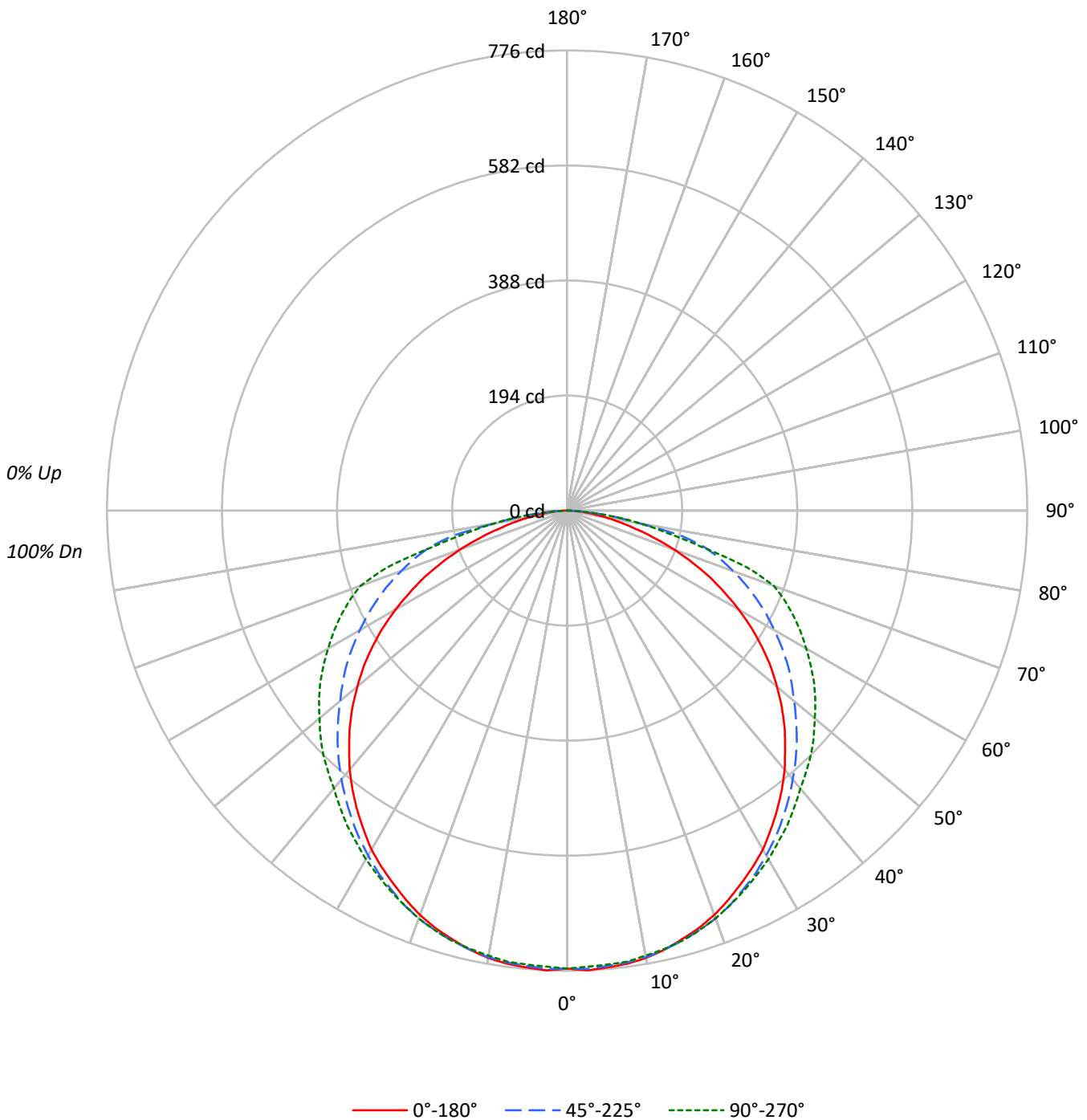
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1039	1039	1039
5°	1045	1041	1038
10°	1047	1045	1041
15°	1042	1046	1046
20°	1039	1048	1048
25°	1030	1045	1049
30°	1025	1043	1055
35°	1014	1041	1063
40°	1002	1039	1075
45°	987	1042	1107
50°	967	1046	1141
55°	941	1066	1193
60°	900	1087	1253
65°	844	1121	1342
70°	755	1172	1459
75°	623	1253	1207
80°	508	968	978
85°	409	642	604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	3.0
10°-20°	211.6	8.7
20°-30°	323.5	13.2
30°-40°	395.6	16.2
40°-50°	423.3	17.3
50°-60°	405.3	16.6
60°-70°	342.9	14.0
70°-80°	217.4	8.9
80°-90°	50.0	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°	608.5	24.9
0°-40°	1004.1	41.1
0°-60°	1832.7	75.0
0°-90°	2443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	774	770	771	770	768	74
15°	748	747	751	751	751	211
25°	694	694	704	707	707	320
35°	617	621	634	642	647	386
45°	519	528	548	570	582	400
55°	401	414	454	492	508	358
65°	265	290	352	400	422	261
75°	120	169	241	240	232	130
85°	26	40	42	38	39	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.3	772.3	772.3	772.3	772.3
2.5°	776.1	772.3	773.5	772.3	769.8
5°	773.5	769.8	771.0	769.8	768.5
7.5°	771.0	767.2	768.5	767.2	767.2
10°	766.0	762.2	764.7	763.4	762.2
12.5°	758.4	755.9	758.4	757.1	757.1
15°	748.3	747.0	750.8	750.8	750.8
17.5°	738.2	736.9	742.0	742.0	742.0
20°	725.6	724.3	731.9	731.9	731.9
22.5°	710.4	709.2	719.3	719.3	719.3
25°	694.0	694.0	704.1	706.7	706.7
27.5°	677.6	677.6	689.0	692.8	692.8
30°	660.0	660.0	671.3	676.4	678.9
32.5°	638.5	641.0	653.7	660.0	662.5
35°	617.1	620.9	633.5	642.3	647.4
37.5°	594.4	598.1	613.3	623.4	629.7
40°	570.4	575.4	591.8	604.4	612.0
42.5°	543.9	551.4	570.4	586.8	596.9
45°	518.6	527.5	547.7	570.4	581.7
47.5°	490.9	501.0	523.7	552.7	564.1
50°	461.9	471.9	499.7	532.5	545.1
52.5°	432.8	444.2	477.0	512.3	527.5
55°	401.3	413.9	454.3	492.1	508.5
57.5°	368.5	383.6	429.0	469.4	487.1
60°	334.4	353.3	403.8	446.7	465.6
62.5°	299.1	321.8	378.6	424.0	444.2
65°	265.0	290.2	352.1	400.0	421.5
67.5°	228.4	259.9	325.6	377.3	397.5
70°	191.8	228.4	297.8	350.8	371.0
72.5°	155.2	199.4	270.0	318.0	318.0
75°	119.9	169.1	241.0	239.8	232.2
77.5°	90.9	141.3	198.1	169.1	170.4
80°	65.6	113.6	124.9	124.9	126.2
82.5°	44.2	87.1	80.8	79.5	82.0
85°	26.5	40.4	41.6	37.9	39.1
87.5°	12.6	13.9	11.4	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)