

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: P263468

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263468
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-LD5-40SE-SQP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2367.0 lumens
Efficiency: N/A
Efficacy: 76.9 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

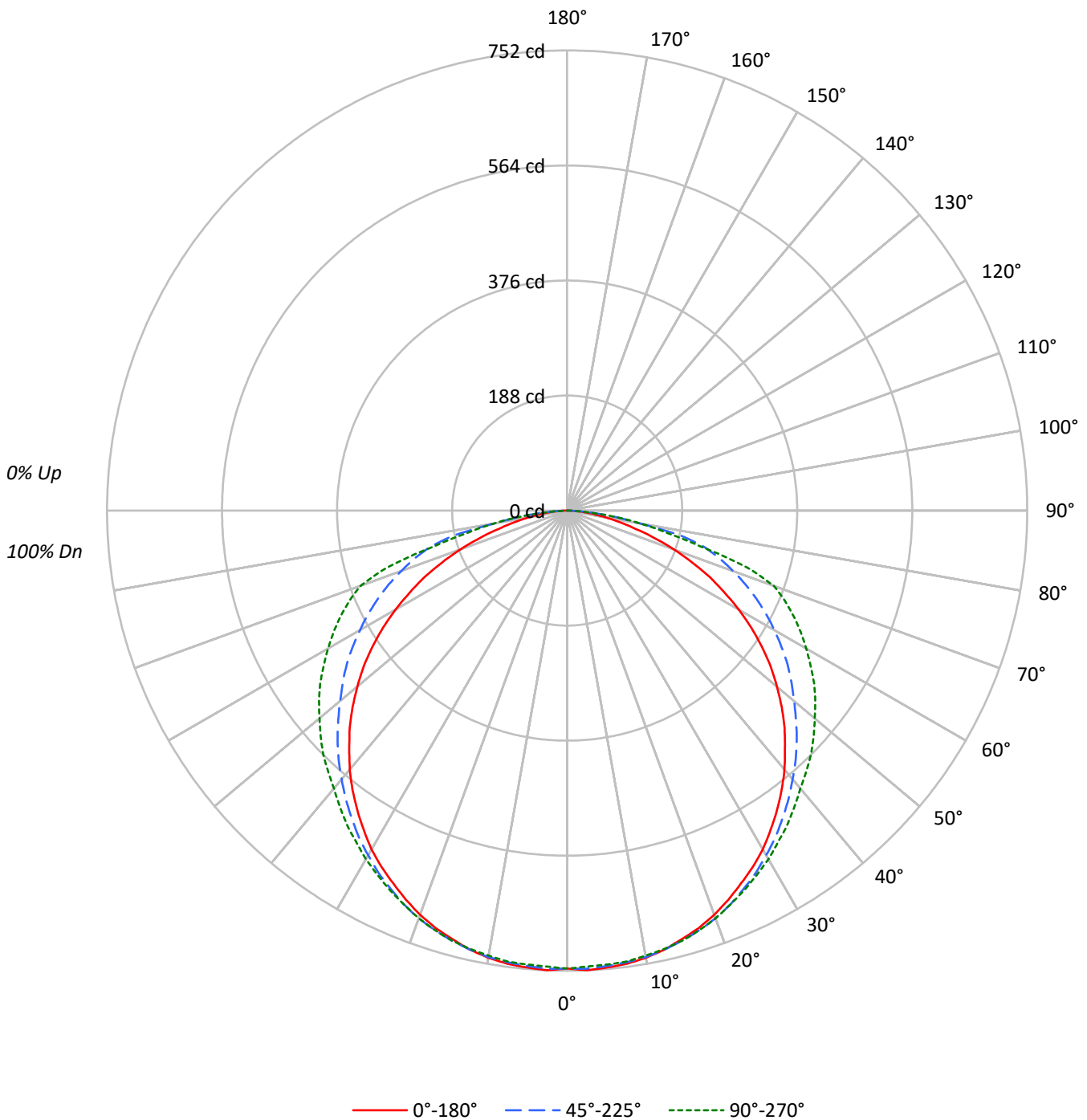
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1007	1007	1007
5°	1012	1009	1006
10°	1014	1012	1009
15°	1010	1013	1013
20°	1007	1015	1015
25°	998	1013	1016
30°	993	1010	1022
35°	982	1008	1030
40°	971	1007	1042
45°	956	1010	1072
50°	937	1014	1106
55°	912	1032	1156
60°	872	1053	1214
65°	818	1086	1300
70°	731	1135	1414
75°	604	1214	1170
80°	493	938	948
85°	397	622	585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.0
10°-20°	205.1	8.7
20°-30°	313.4	13.2
30°-40°	383.3	16.2
40°-50°	410.1	17.3
50°-60°	392.7	16.6
60°-70°	332.2	14.0
70°-80°	210.6	8.9
80°-90°	48.4	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°	589.5	24.9
0°-40°	972.8	41.1
0°-60°	1775.7	75.0
0°-90°	2367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	750	746	747	746	745	71
15°	725	724	728	728	728	205
25°	672	672	682	685	685	310
35°	598	602	614	622	627	374
45°	502	511	531	553	564	387
55°	389	401	440	477	493	347
65°	257	281	341	388	408	253
75°	116	164	234	232	225	126
85°	26	39	40	37	38	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.3	748.3	748.3	748.3	748.3
2.5°	751.9	748.3	749.5	748.3	745.8
5°	749.5	745.8	747.0	745.8	744.6
7.5°	747.0	743.4	744.6	743.4	743.4
10°	742.1	738.5	740.9	739.7	738.5
12.5°	734.8	732.4	734.8	733.6	733.6
15°	725.0	723.8	727.5	727.5	727.5
17.5°	715.2	714.0	718.9	718.9	718.9
20°	703.0	701.8	709.1	709.1	709.1
22.5°	688.3	687.1	696.9	696.9	696.9
25°	672.4	672.4	682.2	684.7	684.7
27.5°	656.6	656.6	667.6	671.2	671.2
30°	639.4	639.4	650.4	655.3	657.8
32.5°	618.7	621.1	633.3	639.4	641.9
35°	597.9	601.5	613.8	622.3	627.2
37.5°	575.9	579.5	594.2	604.0	610.1
40°	552.6	557.5	573.4	585.6	593.0
42.5°	527.0	534.3	552.6	568.5	578.3
45°	502.5	511.1	530.6	552.6	563.6
47.5°	475.6	485.4	507.4	535.5	546.5
50°	447.5	457.3	484.2	516.0	528.2
52.5°	419.4	430.4	462.2	496.4	511.1
55°	388.8	401.0	440.1	476.8	492.7
57.5°	357.0	371.7	415.7	454.8	471.9
60°	324.0	342.3	391.2	432.8	451.2
62.5°	289.8	311.8	366.8	410.8	430.4
65°	256.8	281.2	341.1	387.6	408.4
67.5°	221.3	251.9	315.4	365.6	385.1
70°	185.8	221.3	288.5	339.9	359.5
72.5°	150.4	193.2	261.6	308.1	308.1
75°	116.2	163.8	233.5	232.3	225.0
77.5°	88.0	136.9	192.0	163.8	165.1
80°	63.6	110.0	121.0	121.0	122.3
82.5°	42.8	84.4	78.2	77.0	79.5
85°	25.7	39.1	40.3	36.7	37.9
87.5°	12.2	13.4	11.0	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)