

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: P263330

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263330
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-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2459.0 lumens
Efficiency: N/A
Efficacy: 80.9 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

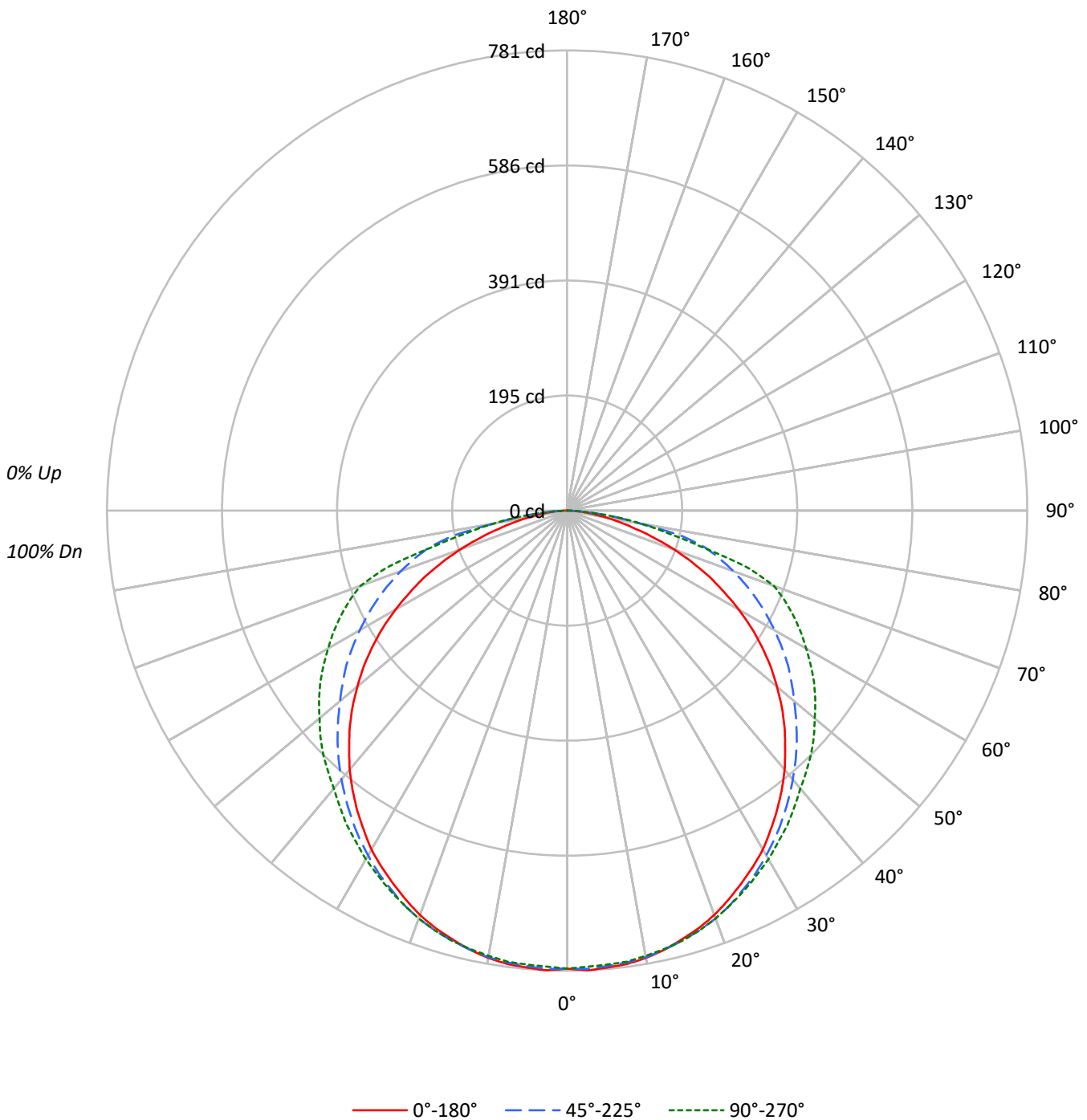
Input Watts (W): 30.411
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1046	1046	1046
5°	1052	1048	1045
10°	1053	1052	1048
15°	1049	1053	1053
20°	1046	1055	1055
25°	1037	1052	1056
30°	1032	1050	1062
35°	1020	1047	1070
40°	1008	1046	1082
45°	993	1049	1114
50°	973	1053	1149
55°	947	1073	1201
60°	906	1094	1261
65°	849	1128	1351
70°	760	1179	1469
75°	627	1261	1215
80°	511	974	984
85°	412	647	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.0
10°-20°	213.0	8.7
20°-30°	325.6	13.2
30°-40°	398.2	16.2
40°-50°	426.1	17.3
50°-60°	408.0	16.6
60°-70°	345.1	14.0
70°-80°	218.8	8.9
80°-90°	50.3	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°	612.4	24.9
0°-40°	1010.7	41.1
0°-60°	1844.7	75.0
0°-90°	2459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	779	775	776	775	774	74
15°	753	752	756	756	756	213
25°	699	699	709	711	711	322
35°	621	625	638	646	652	389
45°	522	531	551	574	586	402
55°	404	417	457	495	512	360
65°	267	292	354	403	424	263
75°	121	170	243	241	234	131
85°	27	41	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°	777.3	777.3	777.3	777.3	777.3
2.5°	781.1	777.3	778.6	777.3	774.8
5°	778.6	774.8	776.1	774.8	773.5
7.5°	776.1	772.3	773.5	772.3	772.3
10°	771.0	767.2	769.7	768.4	767.2
12.5°	763.4	760.8	763.4	762.1	762.1
15°	753.2	751.9	755.7	755.7	755.7
17.5°	743.0	741.8	746.9	746.9	746.9
20°	730.3	729.1	736.7	736.7	736.7
22.5°	715.1	713.8	724.0	724.0	724.0
25°	698.6	698.6	708.7	711.3	711.3
27.5°	682.1	682.1	693.5	697.3	697.3
30°	664.3	664.3	675.7	680.8	683.3
32.5°	642.7	645.2	657.9	664.3	666.8
35°	621.1	624.9	637.6	646.5	651.6
37.5°	598.2	602.1	617.3	627.5	633.8
40°	574.1	579.2	595.7	608.4	616.0
42.5°	547.4	555.1	574.1	590.6	600.8
45°	522.0	530.9	551.2	574.1	585.5
47.5°	494.1	504.3	527.1	556.3	567.8
50°	464.9	475.0	503.0	536.0	548.7
52.5°	435.7	447.1	480.1	515.7	530.9
55°	403.9	416.6	457.3	495.4	511.9
57.5°	370.9	386.1	431.9	472.5	490.3
60°	336.6	355.6	406.5	449.6	468.7
62.5°	301.0	323.9	381.0	426.8	447.1
65°	266.7	292.1	354.4	402.6	424.2
67.5°	229.9	261.7	327.7	379.8	400.1
70°	193.1	229.9	299.8	353.1	373.4
72.5°	156.2	200.7	271.8	320.1	320.1
75°	120.7	170.2	242.6	241.3	233.7
77.5°	91.5	142.3	199.4	170.2	171.5
80°	66.0	114.3	125.7	125.7	127.0
82.5°	44.5	87.6	81.3	80.0	82.6
85°	26.7	40.6	41.9	38.1	39.4
87.5°	12.7	14.0	11.4	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)