

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: P263384

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263384
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-LD5-45-SQP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2327.0 lumens
Efficiency: N/A
Efficacy: 74.2 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

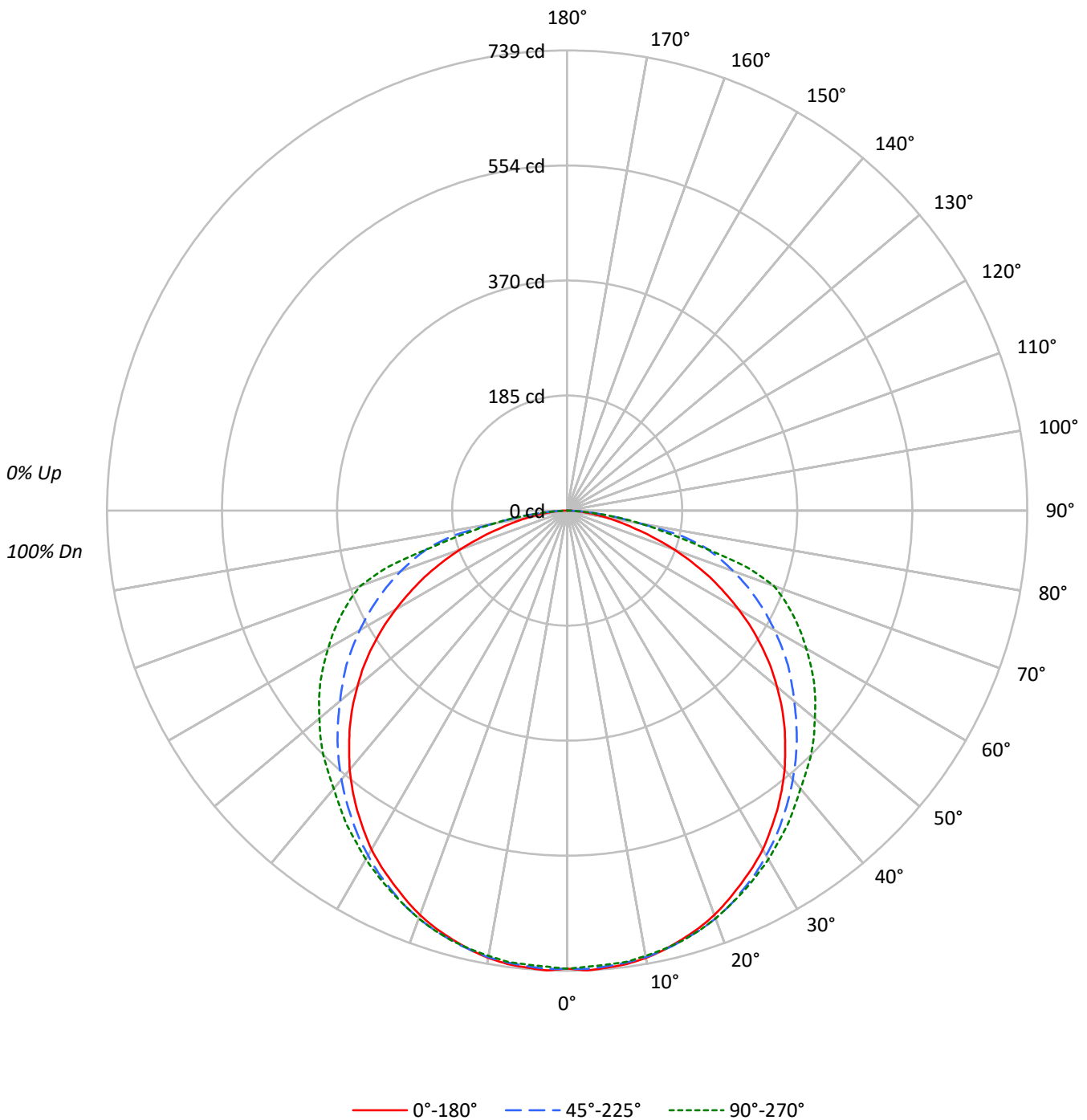
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	990	990	990
5°	995	992	989
10°	997	995	992
15°	993	996	996
20°	990	998	998
25°	981	996	999
30°	977	994	1005
35°	965	991	1013
40°	954	990	1024
45°	940	993	1054
50°	921	996	1087
55°	897	1015	1136
60°	857	1035	1193
65°	804	1068	1278
70°	719	1116	1390
75°	594	1194	1150
80°	484	922	931
85°	389	613	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.0
10°-20°	201.6	8.7
20°-30°	308.1	13.2
30°-40°	376.8	16.2
40°-50°	403.2	17.3
50°-60°	386.1	16.6
60°-70°	326.6	14.0
70°-80°	207.0	8.9
80°-90°	47.6	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°	579.6	24.9
0°-40°	956.4	41.1
0°-60°	1745.7	75.0
0°-90°	2327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	737	733	734	733	732	70
15°	713	712	715	715	715	201
25°	661	661	671	673	673	305
35°	588	591	603	612	617	368
45°	494	502	522	543	554	381
55°	382	394	433	469	484	341
65°	252	276	335	381	402	249
75°	114	161	230	228	221	124
85°	25	38	40	36	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	735.6	735.6	735.6	735.6	735.6
2.5°	739.2	735.6	736.8	735.6	733.2
5°	736.8	733.2	734.4	733.2	732.0
7.5°	734.4	730.8	732.0	730.8	730.8
10°	729.6	726.0	728.4	727.2	726.0
12.5°	722.4	720.0	722.4	721.2	721.2
15°	712.8	711.6	715.2	715.2	715.2
17.5°	703.2	702.0	706.8	706.8	706.8
20°	691.1	689.9	697.1	697.1	697.1
22.5°	676.7	675.5	685.1	685.1	685.1
25°	661.1	661.1	670.7	673.1	673.1
27.5°	645.5	645.5	656.3	659.9	659.9
30°	628.6	628.6	639.5	644.3	646.7
32.5°	608.2	610.6	622.6	628.6	631.0
35°	587.8	591.4	603.4	611.8	616.6
37.5°	566.1	569.7	584.2	593.8	599.8
40°	543.3	548.1	563.7	575.7	583.0
42.5°	518.1	525.3	543.3	558.9	568.5
45°	494.0	502.4	521.7	543.3	554.1
47.5°	467.6	477.2	498.8	526.5	537.3
50°	439.9	449.5	476.0	507.2	519.3
52.5°	412.3	423.1	454.3	488.0	502.4
55°	382.2	394.2	432.7	468.8	484.4
57.5°	351.0	365.4	408.7	447.1	464.0
60°	318.5	336.6	384.6	425.5	443.5
62.5°	284.9	306.5	360.6	403.9	423.1
65°	252.4	276.5	335.4	381.0	401.5
67.5°	217.6	247.6	310.1	359.4	378.6
70°	182.7	217.6	283.7	334.1	353.4
72.5°	147.8	189.9	257.2	302.9	302.9
75°	114.2	161.1	229.6	228.4	221.2
77.5°	86.5	134.6	188.7	161.1	162.3
80°	62.5	108.2	119.0	119.0	120.2
82.5°	42.1	82.9	76.9	75.7	78.1
85°	25.2	38.5	39.7	36.1	37.3
87.5°	12.0	13.2	10.8	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)