

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: P263387

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263387
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2622.0 lumens
Efficiency: N/A
Efficacy: 82.4 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

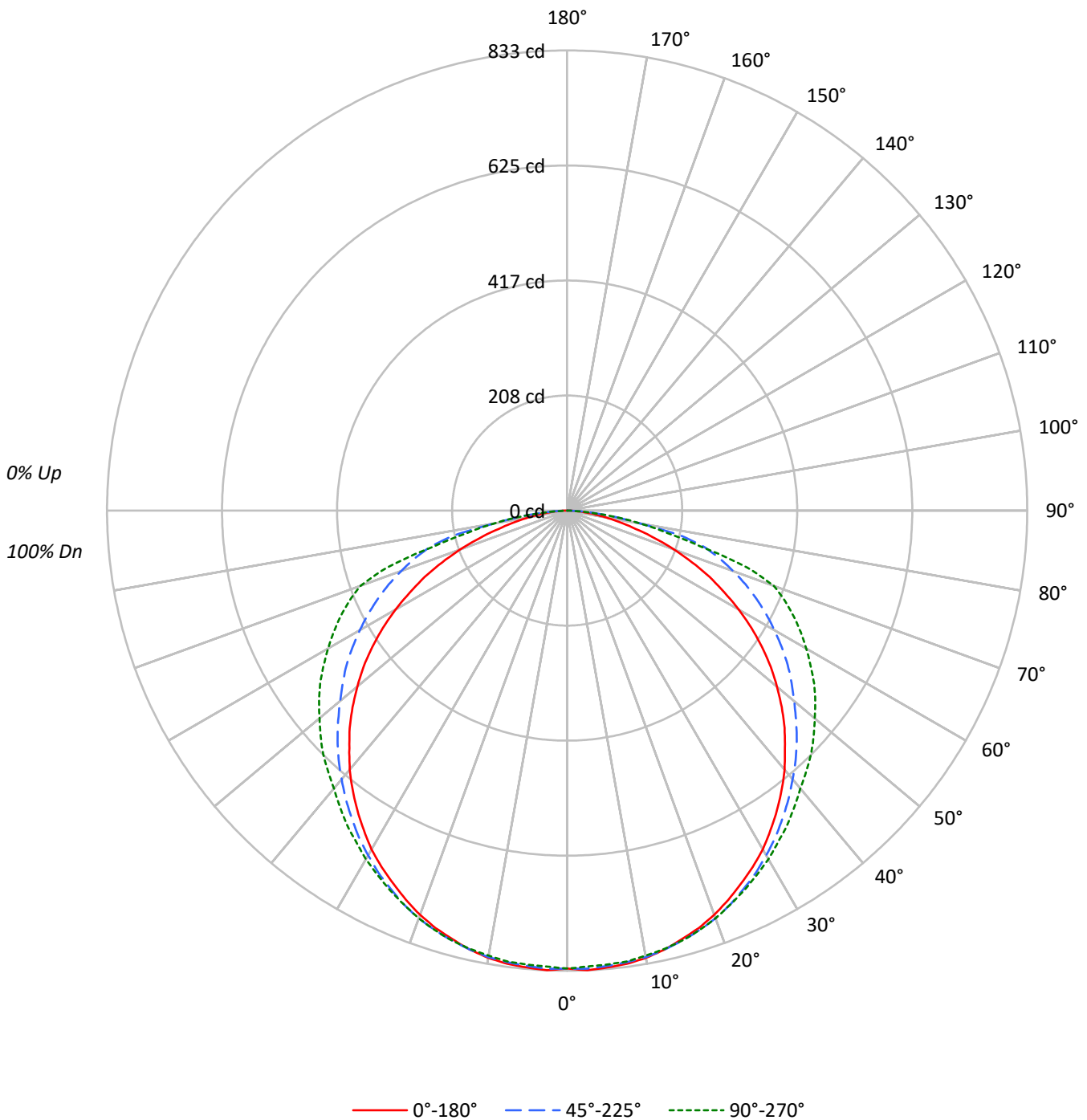
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1115	1115	1115
5°	1121	1118	1114
10°	1123	1121	1118
15°	1119	1122	1122
20°	1115	1125	1125
25°	1106	1122	1126
30°	1100	1119	1132
35°	1088	1117	1141
40°	1075	1116	1154
45°	1059	1118	1188
50°	1038	1123	1225
55°	1010	1144	1280
60°	966	1166	1345
65°	905	1203	1440
70°	810	1257	1566
75°	669	1345	1295
80°	545	1039	1049
85°	438	690	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	3.0
10°-20°	227.2	8.7
20°-30°	347.2	13.2
30°-40°	424.6	16.2
40°-50°	454.3	17.3
50°-60°	435.0	16.6
60°-70°	368.0	14.0
70°-80°	233.3	8.9
80°-90°	53.7	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°	653.0	24.9
0°-40°	1077.6	41.1
0°-60°	1967.0	75.0
0°-90°	2622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	830	826	828	826	825	79
15°	803	802	806	806	806	227
25°	745	745	756	758	758	344
35°	662	666	680	689	695	414
45°	557	566	588	612	624	429
55°	431	444	488	528	546	384
65°	284	312	378	429	452	280
75°	129	182	259	257	249	140
85°	28	43	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°	828.9	828.9	828.9	828.9	828.9
2.5°	832.9	828.9	830.2	828.9	826.2
5°	830.2	826.2	827.5	826.2	824.8
7.5°	827.5	823.4	824.8	823.4	823.4
10°	822.1	818.0	820.7	819.4	818.0
12.5°	814.0	811.3	814.0	812.6	812.6
15°	803.1	801.8	805.8	805.8	805.8
17.5°	792.3	790.9	796.4	796.4	796.4
20°	778.8	777.4	785.5	785.5	785.5
22.5°	762.5	761.1	772.0	772.0	772.0
25°	744.9	744.9	755.7	758.4	758.4
27.5°	727.3	727.3	739.5	743.5	743.5
30°	708.3	708.3	720.5	725.9	728.6
32.5°	685.3	688.0	701.6	708.3	711.0
35°	662.3	666.3	679.9	689.4	694.8
37.5°	637.9	642.0	658.2	669.0	675.8
40°	612.2	617.6	635.2	648.7	656.9
42.5°	583.7	591.9	612.2	629.8	640.6
45°	556.6	566.1	587.8	612.2	624.4
47.5°	526.8	537.7	562.1	593.2	605.4
50°	495.7	506.5	536.3	571.5	585.1
52.5°	464.5	476.7	511.9	549.9	566.1
55°	430.7	444.2	487.6	528.2	545.8
57.5°	395.5	411.7	460.5	503.8	522.8
60°	358.9	379.2	433.4	479.4	499.8
62.5°	321.0	345.4	406.3	455.1	476.7
65°	284.4	311.5	377.9	429.3	452.4
67.5°	245.1	279.0	349.4	405.0	426.6
70°	205.9	245.1	319.6	376.5	398.2
72.5°	166.6	214.0	289.8	341.3	341.3
75°	128.7	181.5	258.7	257.3	249.2
77.5°	97.5	151.7	212.6	181.5	182.8
80°	70.4	121.9	134.1	134.1	135.4
82.5°	47.4	93.5	86.7	85.3	88.0
85°	28.4	43.3	44.7	40.6	42.0
87.5°	13.5	14.9	12.2	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)