

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: P263477

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263477
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-LD5-45SE-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: 2650.0 lumens
Efficiency: N/A
Efficacy: 75.0 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

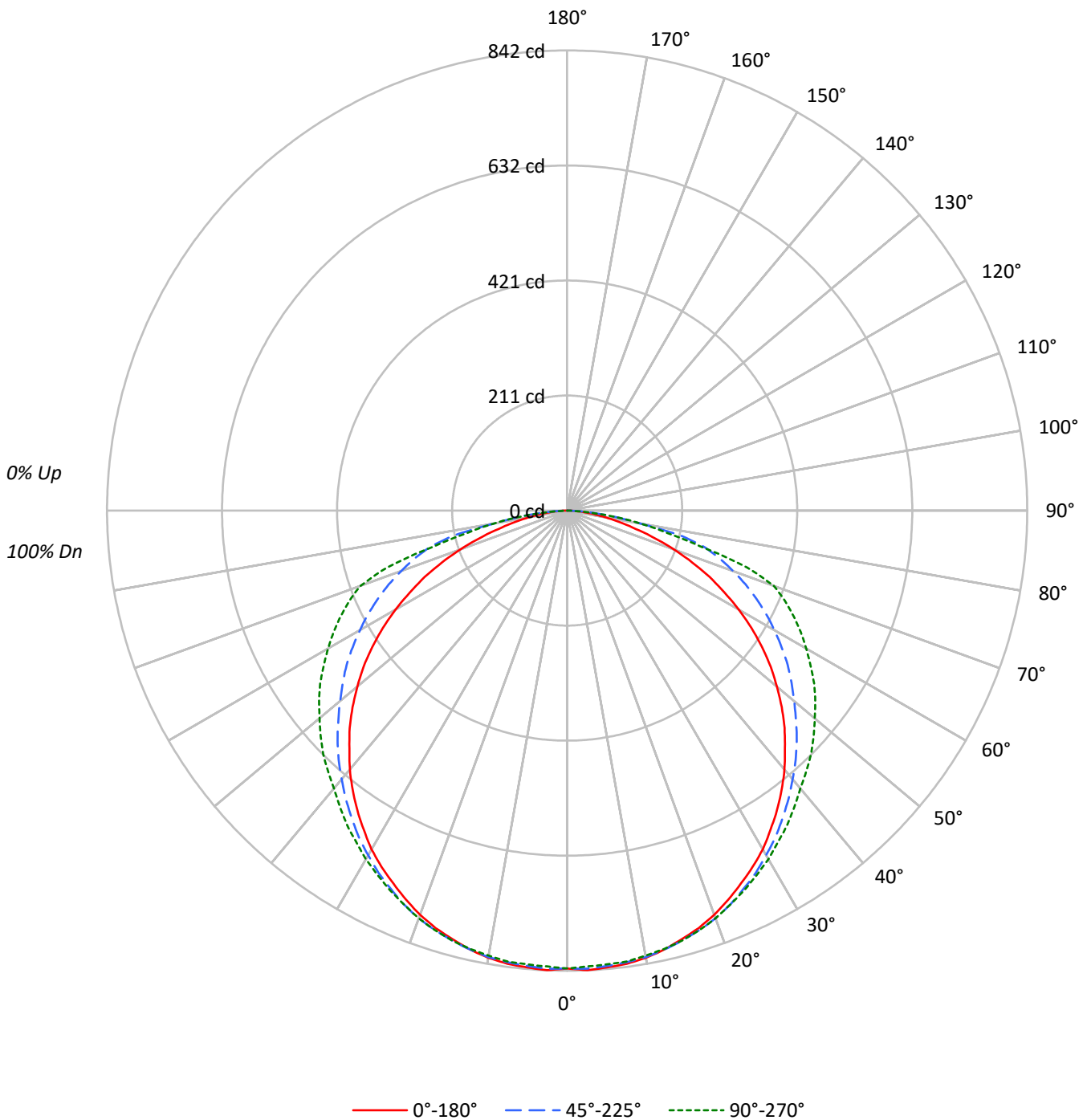
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1127	1127	1127
5°	1133	1130	1126
10°	1135	1133	1130
15°	1131	1134	1134
20°	1127	1137	1137
25°	1118	1134	1138
30°	1112	1131	1144
35°	1100	1129	1153
40°	1087	1128	1166
45°	1071	1130	1201
50°	1049	1135	1238
55°	1021	1156	1294
60°	976	1179	1359
65°	915	1216	1456
70°	819	1271	1583
75°	676	1359	1310
80°	552	1050	1061
85°	443	698	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.0
10°-20°	229.6	8.7
20°-30°	350.9	13.2
30°-40°	429.1	16.2
40°-50°	459.2	17.3
50°-60°	439.7	16.6
60°-70°	372.0	14.0
70°-80°	235.8	8.9
80°-90°	54.2	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°	660.0	24.9
0°-40°	1089.2	41.1
0°-60°	1988.0	75.0
0°-90°	2650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	839	835	836	835	834	80
15°	812	810	814	814	814	229
25°	753	753	764	766	766	347
35°	669	674	687	697	702	419
45°	563	572	594	619	631	433
55°	435	449	493	534	552	388
65°	288	315	382	434	457	283
75°	130	183	261	260	252	141
85°	29	44	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°	837.7	837.7	837.7	837.7	837.7
2.5°	841.8	837.7	839.1	837.7	835.0
5°	839.1	835.0	836.3	835.0	833.6
7.5°	836.3	832.2	833.6	832.2	832.2
10°	830.9	826.8	829.5	828.1	826.8
12.5°	822.7	819.9	822.7	821.3	821.3
15°	811.7	810.3	814.4	814.4	814.4
17.5°	800.8	799.4	804.9	804.9	804.9
20°	787.1	785.7	793.9	793.9	793.9
22.5°	770.6	769.3	780.2	780.2	780.2
25°	752.8	752.8	763.8	766.5	766.5
27.5°	735.1	735.1	747.4	751.5	751.5
30°	715.9	715.9	728.2	733.7	736.4
32.5°	692.6	695.4	709.0	715.9	718.6
35°	669.4	673.5	687.1	696.7	702.2
37.5°	644.7	648.8	665.2	676.2	683.0
40°	618.7	624.2	642.0	655.7	663.9
42.5°	590.0	598.2	618.7	636.5	647.4
45°	562.6	572.2	594.1	618.7	631.0
47.5°	532.5	543.4	568.1	599.5	611.9
50°	501.0	511.9	542.1	577.6	591.3
52.5°	469.5	481.8	517.4	555.7	572.2
55°	435.3	449.0	492.8	533.8	551.6
57.5°	399.7	416.1	465.4	509.2	528.4
60°	362.7	383.3	438.0	484.6	505.1
62.5°	324.4	349.0	410.6	459.9	481.8
65°	287.5	314.8	381.9	433.9	457.2
67.5°	247.8	282.0	353.2	409.3	431.2
70°	208.1	247.8	323.0	380.5	402.4
72.5°	168.4	216.3	292.9	344.9	344.9
75°	130.0	183.4	261.4	260.1	251.9
77.5°	98.6	153.3	214.9	183.4	184.8
80°	71.2	123.2	135.5	135.5	136.9
82.5°	47.9	94.4	87.6	86.2	89.0
85°	28.7	43.8	45.2	41.1	42.4
87.5°	13.7	15.1	12.3	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)