

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: P263482

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263482
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2847.0 lumens
Efficiency: N/A
Efficacy: 77.7 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

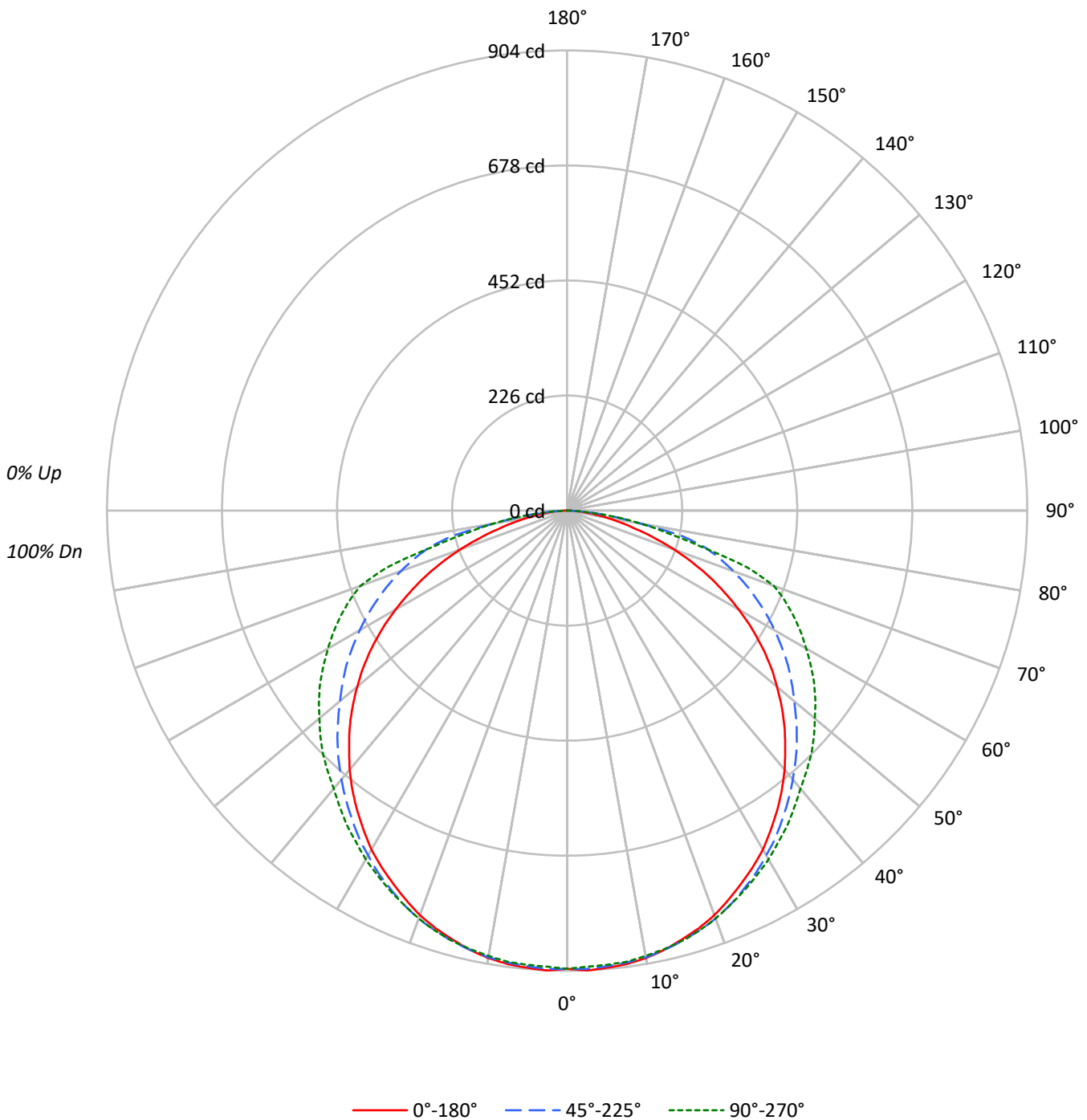
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1211	1211	1211
5°	1218	1214	1210
10°	1220	1218	1213
15°	1215	1219	1219
20°	1211	1221	1221
25°	1201	1218	1223
30°	1195	1215	1229
35°	1181	1213	1239
40°	1167	1211	1253
45°	1150	1214	1290
50°	1127	1219	1330
55°	1097	1242	1390
60°	1049	1266	1460
65°	983	1306	1564
70°	879	1365	1701
75°	726	1460	1407
80°	593	1128	1140
85°	477	749	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	3.0
10°-20°	246.6	8.7
20°-30°	377.0	13.2
30°-40°	461.0	16.2
40°-50°	493.3	17.3
50°-60°	472.4	16.6
60°-70°	399.6	14.0
70°-80°	253.3	8.9
80°-90°	58.3	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°	709.1	24.9
0°-40°	1170.1	41.1
0°-60°	2135.8	75.0
0°-90°	2847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	902	897	898	897	896	86
15°	872	871	875	875	875	246
25°	809	809	821	824	824	373
35°	719	724	738	748	754	450
45°	604	615	638	665	678	466
55°	468	482	529	574	593	417
65°	309	338	410	466	491	304
75°	140	197	281	279	271	152
85°	31	47	48	44	46	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.0	900.0	900.0	900.0	900.0
2.5°	904.4	900.0	901.5	900.0	897.0
5°	901.5	897.0	898.5	897.0	895.6
7.5°	898.5	894.1	895.6	894.1	894.1
10°	892.6	888.2	891.2	889.7	888.2
12.5°	883.8	880.9	883.8	882.3	882.3
15°	872.0	870.6	875.0	875.0	875.0
17.5°	860.3	858.8	864.7	864.7	864.7
20°	845.6	844.1	852.9	852.9	852.9
22.5°	827.9	826.5	838.2	838.2	838.2
25°	808.8	808.8	820.6	823.5	823.5
27.5°	789.7	789.7	802.9	807.3	807.3
30°	769.1	769.1	782.3	788.2	791.2
32.5°	744.1	747.1	761.8	769.1	772.1
35°	719.1	723.5	738.2	748.5	754.4
37.5°	692.6	697.1	714.7	726.5	733.8
40°	664.7	670.6	689.7	704.4	713.2
42.5°	633.8	642.6	664.7	683.8	695.6
45°	604.4	614.7	638.2	664.7	677.9
47.5°	572.1	583.8	610.3	644.1	657.3
50°	538.2	550.0	582.3	620.6	635.3
52.5°	504.4	517.6	555.9	597.1	614.7
55°	467.6	482.3	529.4	573.5	592.6
57.5°	429.4	447.1	500.0	547.1	567.6
60°	389.7	411.8	470.6	520.6	542.6
62.5°	348.5	375.0	441.2	494.1	517.6
65°	308.8	338.2	410.3	466.2	491.2
67.5°	266.2	302.9	379.4	439.7	463.2
70°	223.5	266.2	347.1	408.8	432.3
72.5°	180.9	232.4	314.7	370.6	370.6
75°	139.7	197.1	280.9	279.4	270.6
77.5°	105.9	164.7	230.9	197.1	198.5
80°	76.5	132.4	145.6	145.6	147.1
82.5°	51.5	101.5	94.1	92.6	95.6
85°	30.9	47.1	48.5	44.1	45.6
87.5°	14.7	16.2	13.2	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)