

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: P263218

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263218
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-LD5-50SE-SQP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2814.6 lumens
Efficiency: N/A
Efficacy: 69.6 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

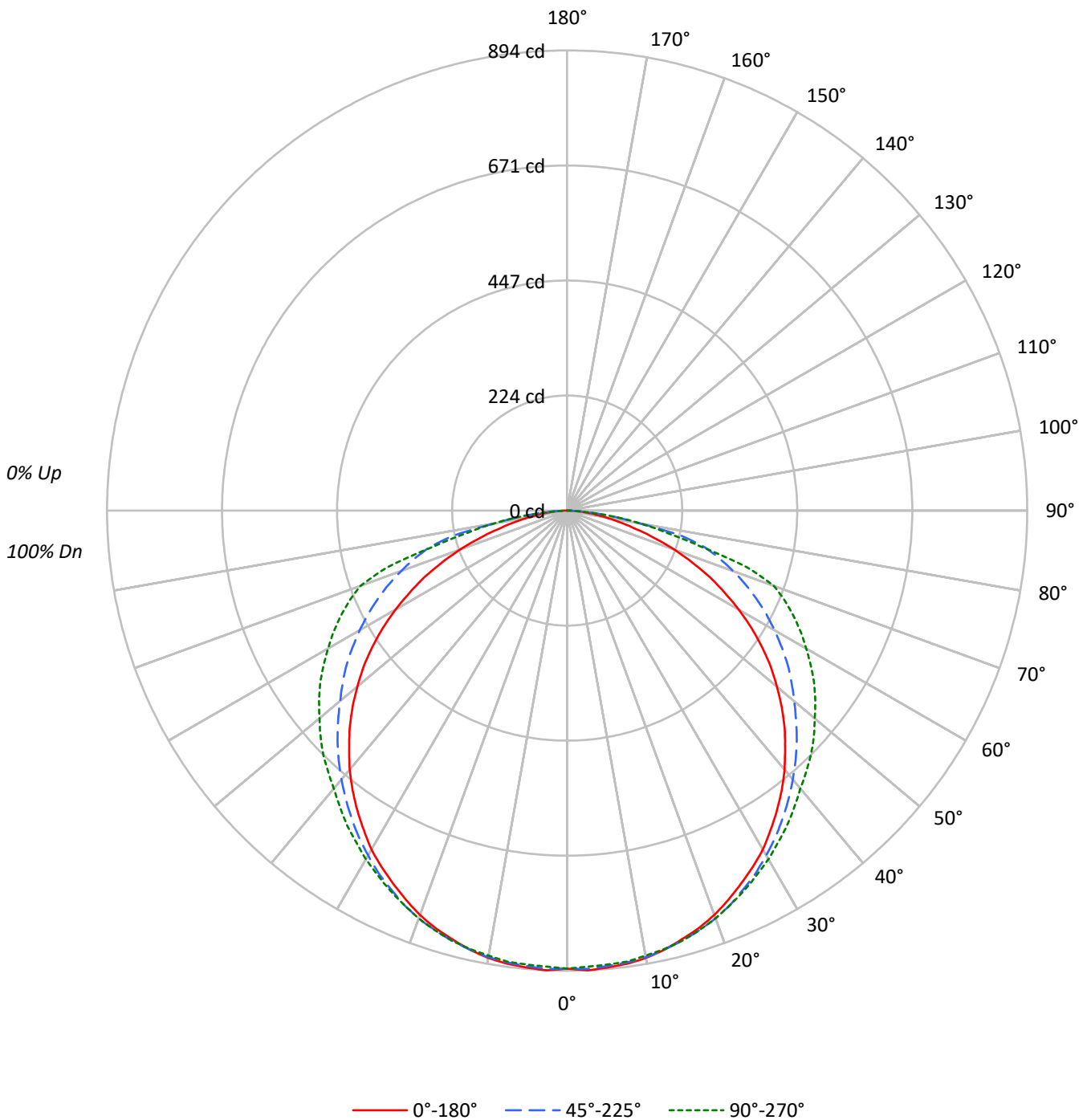
Input Watts (W): 40.465509
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1197	1197	1197
5°	1204	1200	1196
10°	1206	1204	1200
15°	1201	1205	1205
20°	1197	1207	1207
25°	1187	1204	1209
30°	1181	1202	1215
35°	1168	1199	1225
40°	1154	1198	1238
45°	1137	1201	1275
50°	1114	1205	1315
55°	1084	1228	1374
60°	1037	1252	1444
65°	972	1291	1546
70°	869	1350	1681
75°	718	1444	1391
80°	586	1115	1127
85°	471	741	696



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.0
10°-20°	243.8	8.7
20°-30°	372.7	13.2
30°-40°	455.8	16.2
40°-50°	487.7	17.3
50°-60°	467.0	16.6
60°-70°	395.1	14.0
70°-80°	250.4	8.9
80°-90°	57.6	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°	701.0	24.9
0°-40°	1156.8	41.1
0°-60°	2111.5	75.0
0°-90°	2814.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2814.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	891	887	888	887	885	85
15°	862	861	865	865	865	244
25°	800	800	811	814	814	369
35°	711	715	730	740	746	445
45°	598	608	631	657	670	460
55°	462	477	523	567	586	412
65°	305	334	406	461	486	301
75°	138	195	278	276	268	150
85°	30	46	48	44	45	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.8	889.8	889.8	889.8	889.8
2.5°	894.1	889.8	891.2	889.8	886.8
5°	891.2	886.8	888.3	886.8	885.4
7.5°	888.3	883.9	885.4	883.9	883.9
10°	882.5	878.1	881.0	879.6	878.1
12.5°	873.8	870.9	873.8	872.3	872.3
15°	862.1	860.7	865.0	865.0	865.0
17.5°	850.5	849.0	854.9	854.9	854.9
20°	836.0	834.5	843.2	843.2	843.2
22.5°	818.5	817.1	828.7	828.7	828.7
25°	799.6	799.6	811.2	814.2	814.2
27.5°	780.7	780.7	793.8	798.2	798.2
30°	760.4	760.4	773.4	779.3	782.2
32.5°	735.6	738.6	753.1	760.4	763.3
35°	710.9	715.3	729.8	740.0	745.8
37.5°	684.8	689.1	706.6	718.2	725.5
40°	657.1	663.0	681.9	696.4	705.1
42.5°	626.6	635.3	657.1	676.0	687.7
45°	597.5	607.7	631.0	657.1	670.2
47.5°	565.5	577.2	603.3	636.8	649.9
50°	532.1	543.7	575.7	613.5	628.1
52.5°	498.7	511.8	549.6	590.3	607.7
55°	462.3	476.9	523.4	567.0	585.9
57.5°	424.5	442.0	494.3	540.8	561.2
60°	385.3	407.1	465.2	514.7	536.5
62.5°	344.6	370.7	436.2	488.5	511.8
65°	305.3	334.4	405.6	460.9	485.6
67.5°	263.1	299.5	375.1	434.7	458.0
70°	221.0	263.1	343.1	404.2	427.4
72.5°	178.8	229.7	311.1	366.4	366.4
75°	138.1	194.8	277.7	276.2	267.5
77.5°	104.7	162.8	228.3	194.8	196.3
80°	75.6	130.8	143.9	143.9	145.4
82.5°	50.9	100.3	93.0	91.6	94.5
85°	30.5	46.5	48.0	43.6	45.1
87.5°	14.5	16.0	13.1	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)