

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: P263134

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263134
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-LD5-40SE-SQP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2814.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

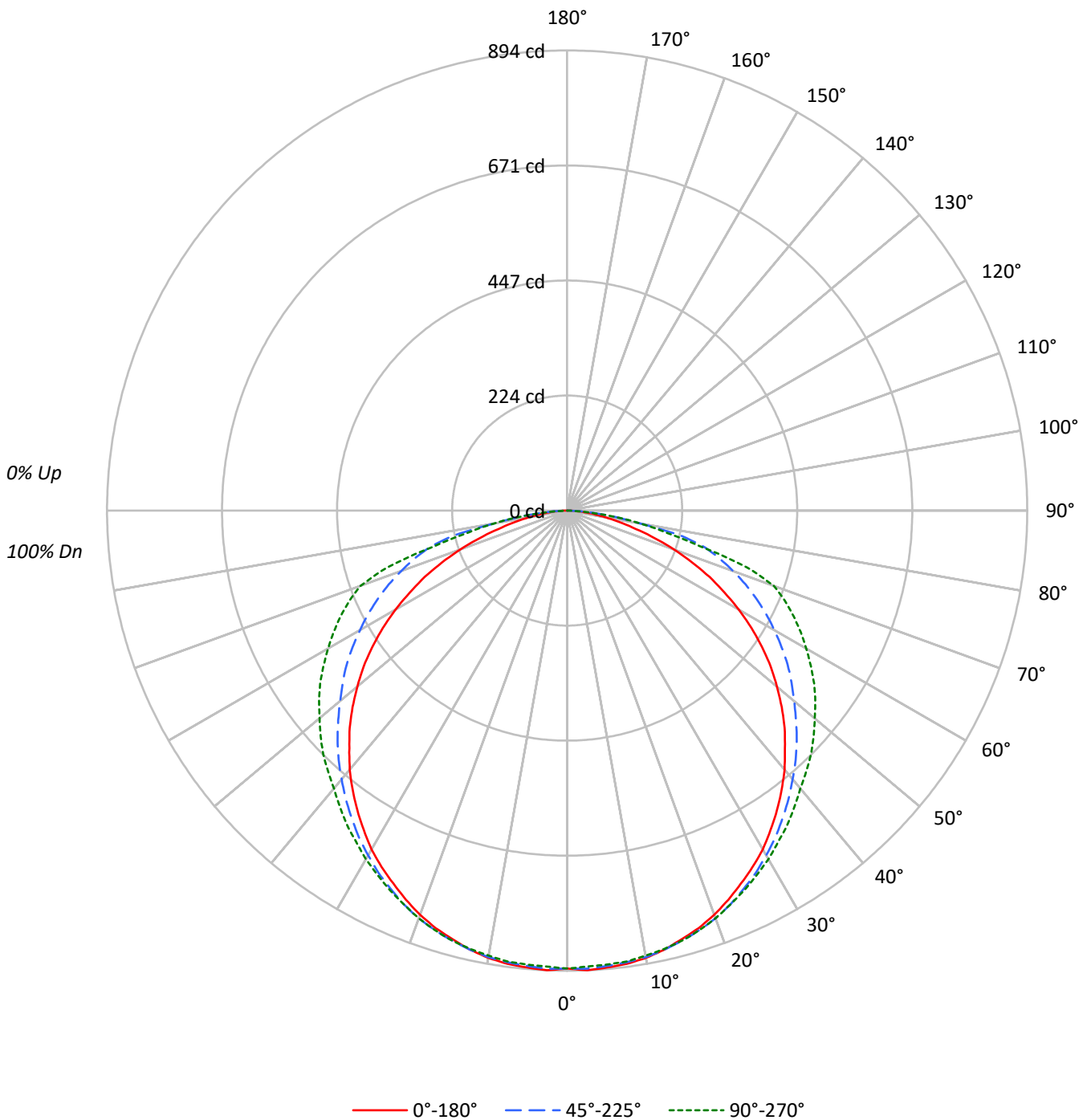
Input Watts (W): 31.110453
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1203	1199	1196
10°	1205	1203	1199
15°	1201	1205	1205
20°	1197	1207	1207
25°	1187	1204	1208
30°	1181	1201	1215
35°	1168	1199	1225
40°	1154	1197	1238
45°	1137	1200	1275
50°	1114	1205	1314
55°	1084	1228	1374
60°	1037	1252	1443
65°	972	1291	1546
70°	869	1349	1681
75°	718	1443	1390
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°	372.6	13.2
30°-40°	455.7	16.2
40°-50°	487.6	17.3
50°-60°	466.9	16.6
60°-70°	395.0	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°	700.9	24.9
0°-40°	1156.6	41.1
0°-60°	2111.1	75.0
0°-90°	2814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2814.0	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	860	865	865	865	243
25°	799	799	811	814	814	369
35°	711	715	730	740	746	445
45°	597	608	631	657	670	460
55°	462	477	523	567	586	412
65°	305	334	406	461	486	301
75°	138	195	278	276	267	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°	889.6	889.6	889.6	889.6	889.6
2.5°	893.9	889.6	891.0	889.6	886.7
5°	891.0	886.7	888.1	886.7	885.2
7.5°	888.1	883.7	885.2	883.7	883.7
10°	882.3	877.9	880.8	879.4	877.9
12.5°	873.6	870.7	873.6	872.1	872.1
15°	861.9	860.5	864.8	864.8	864.8
17.5°	850.3	848.9	854.7	854.7	854.7
20°	835.8	834.3	843.0	843.0	843.0
22.5°	818.3	816.9	828.5	828.5	828.5
25°	799.4	799.4	811.1	814.0	814.0
27.5°	780.5	780.5	793.6	798.0	798.0
30°	760.2	760.2	773.3	779.1	782.0
32.5°	735.5	738.4	752.9	760.2	763.1
35°	710.8	715.1	729.7	739.8	745.7
37.5°	684.6	689.0	706.4	718.0	725.3
40°	657.0	662.8	681.7	696.2	705.0
42.5°	626.5	635.2	657.0	675.9	687.5
45°	597.4	607.6	630.8	657.0	670.1
47.5°	565.4	577.0	603.2	636.6	649.7
50°	532.0	543.6	575.6	613.4	627.9
52.5°	498.6	511.6	549.4	590.1	607.6
55°	462.2	476.8	523.3	566.9	585.8
57.5°	424.4	441.9	494.2	540.7	561.1
60°	385.2	407.0	465.1	514.5	536.4
62.5°	344.5	370.6	436.1	488.4	511.6
65°	305.2	334.3	405.5	460.8	485.5
67.5°	263.1	299.4	375.0	434.6	457.9
70°	220.9	263.1	343.0	404.1	427.3
72.5°	178.8	229.7	311.1	366.3	366.3
75°	138.1	194.8	277.6	276.2	267.4
77.5°	104.7	162.8	228.2	194.8	196.2
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)