

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: P263133

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263133
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2680.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

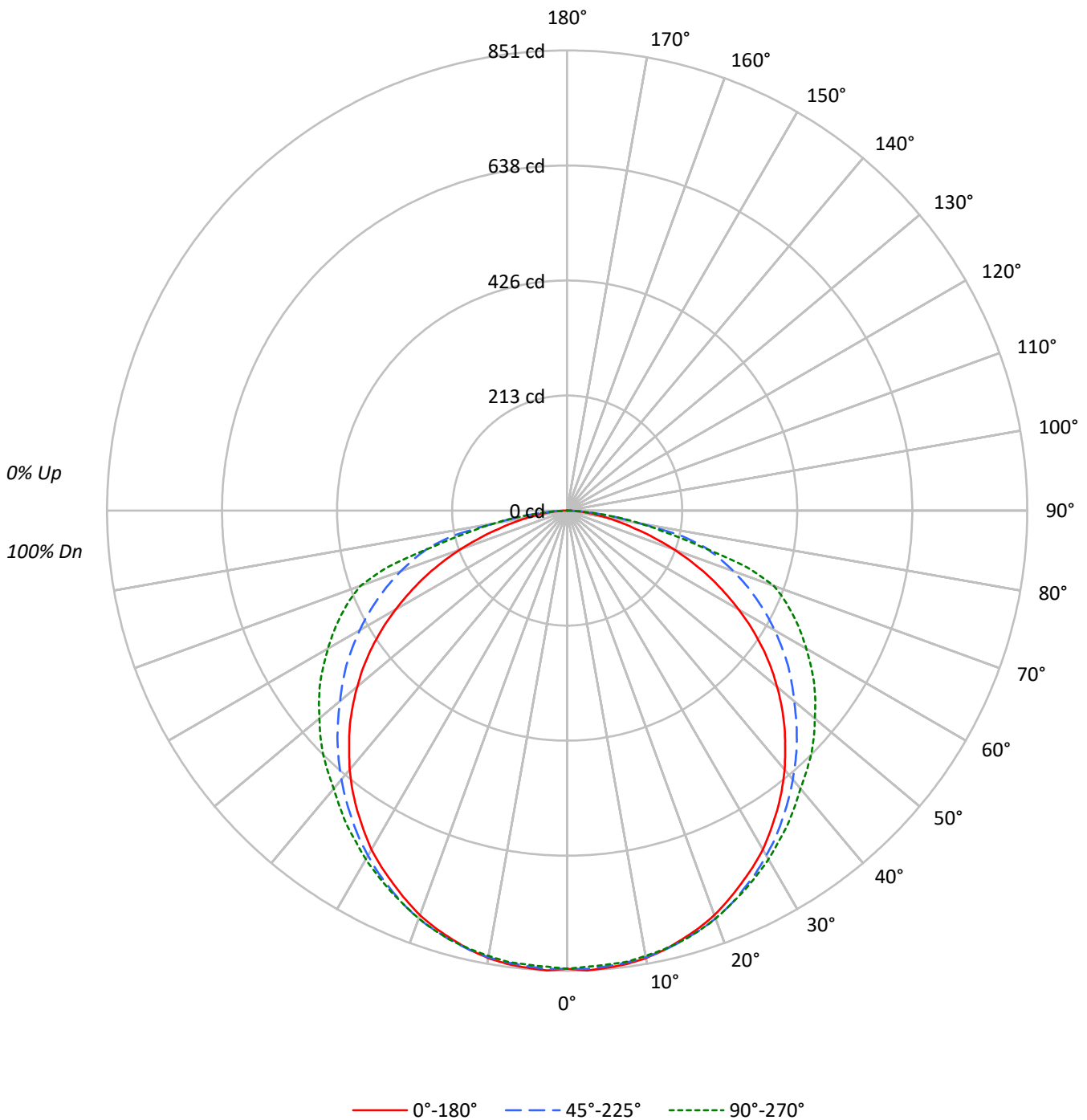
Input Watts (W): 30.411
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1140	1140	1140
5°	1146	1142	1139
10°	1148	1146	1142
15°	1143	1147	1147
20°	1140	1150	1150
25°	1130	1147	1151
30°	1125	1144	1157
35°	1112	1141	1167
40°	1099	1140	1179
45°	1083	1143	1214
50°	1061	1147	1252
55°	1033	1169	1309
60°	987	1192	1375
65°	926	1230	1472
70°	828	1285	1601
75°	684	1375	1324
80°	558	1062	1072
85°	449	706	662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.0
10°-20°	232.2	8.7
20°-30°	354.9	13.2
30°-40°	434.0	16.2
40°-50°	464.4	17.3
50°-60°	444.7	16.6
60°-70°	376.2	14.0
70°-80°	238.4	8.9
80°-90°	54.9	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°	667.5	24.9
0°-40°	1101.5	41.1
0°-60°	2010.6	75.0
0°-90°	2680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	849	844	846	844	843	81
15°	821	820	824	824	824	232
25°	761	761	772	775	775	351
35°	677	681	695	705	710	424
45°	569	579	601	626	638	438
55°	440	454	498	540	558	393
65°	291	318	386	439	462	286
75°	132	186	264	263	255	143
85°	29	44	46	42	43	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.2	847.2	847.2	847.2	847.2
2.5°	851.4	847.2	848.6	847.2	844.4
5°	848.6	844.4	845.8	844.4	843.0
7.5°	845.8	841.7	843.0	841.7	841.7
10°	840.3	836.1	838.9	837.5	836.1
12.5°	832.0	829.2	832.0	830.6	830.6
15°	820.9	819.5	823.7	823.7	823.7
17.5°	809.8	808.4	814.0	814.0	814.0
20°	796.0	794.6	802.9	802.9	802.9
22.5°	779.4	778.0	789.1	789.1	789.1
25°	761.4	761.4	772.4	775.2	775.2
27.5°	743.4	743.4	755.8	760.0	760.0
30°	724.0	724.0	736.5	742.0	744.8
32.5°	700.5	703.2	717.1	724.0	726.8
35°	676.9	681.1	694.9	704.6	710.2
37.5°	652.0	656.2	672.8	683.8	690.8
40°	625.7	631.2	649.2	663.1	671.4
42.5°	596.6	604.9	625.7	643.7	654.8
45°	569.0	578.6	600.8	625.7	638.2
47.5°	538.5	549.6	574.5	606.3	618.8
50°	506.7	517.7	548.2	584.2	598.0
52.5°	474.8	487.3	523.3	562.0	578.6
55°	440.2	454.1	498.4	539.9	557.9
57.5°	404.2	420.8	470.7	515.0	534.3
60°	366.8	387.6	443.0	490.0	510.8
62.5°	328.1	353.0	415.3	465.1	487.3
65°	290.7	318.4	386.2	438.8	462.4
67.5°	250.6	285.2	357.2	413.9	436.1
70°	210.4	250.6	326.7	384.8	407.0
72.5°	170.3	218.7	296.2	348.8	348.8
75°	131.5	185.5	264.4	263.0	254.7
77.5°	99.7	155.0	217.3	185.5	186.9
80°	72.0	124.6	137.0	137.0	138.4
82.5°	48.5	95.5	88.6	87.2	90.0
85°	29.1	44.3	45.7	41.5	42.9
87.5°	13.8	15.2	12.5	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)