

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: P263667

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2951.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

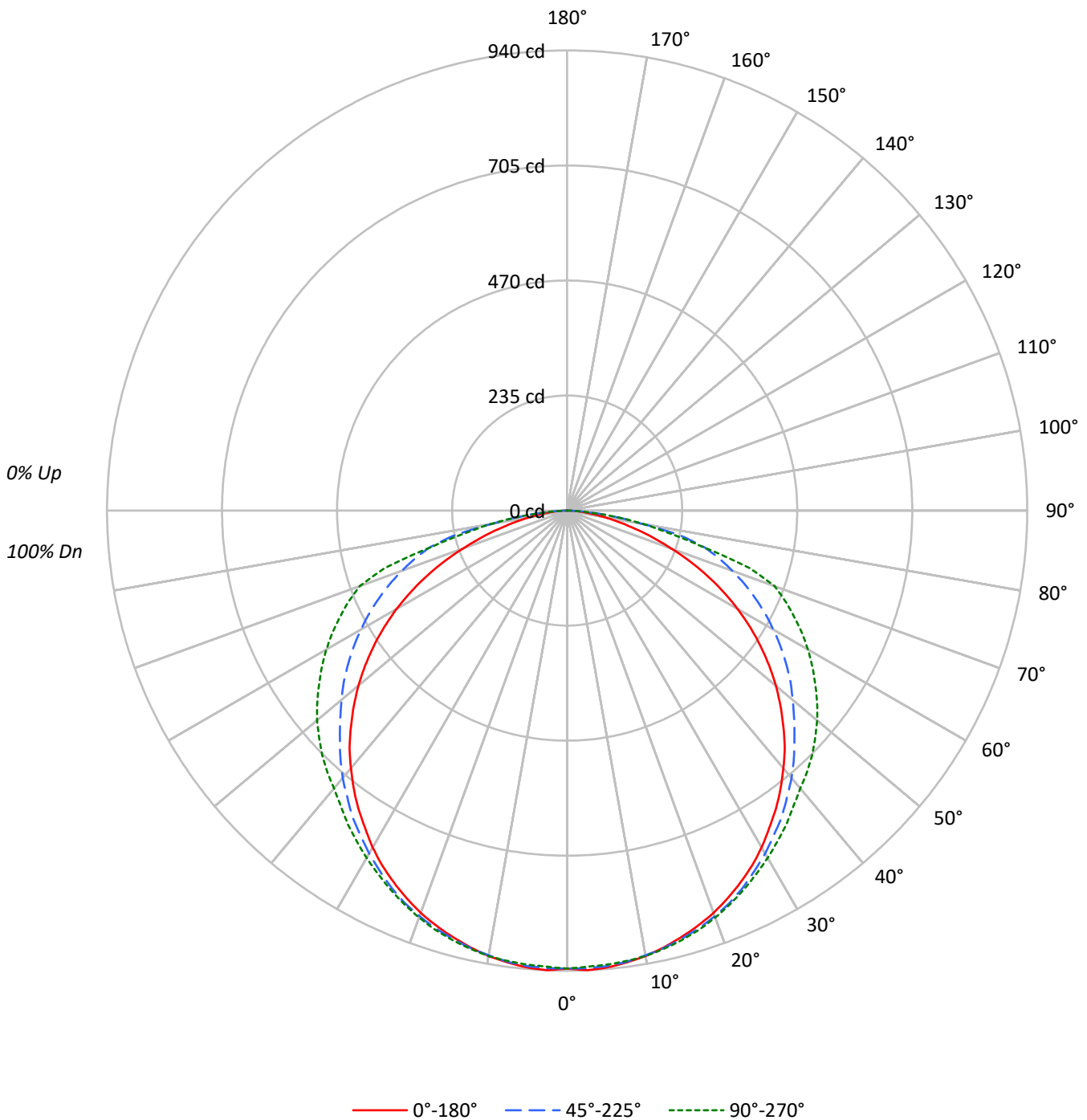
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1259	1259	1259
5°	1265	1261	1258
10°	1262	1260	1262
15°	1257	1261	1265
20°	1252	1262	1267
25°	1244	1262	1268
30°	1235	1257	1273
35°	1222	1255	1284
40°	1207	1253	1301
45°	1188	1249	1346
50°	1165	1259	1396
55°	1131	1281	1452
60°	1083	1309	1528
65°	1008	1351	1628
70°	891	1412	1771
75°	748	1510	1488
80°	597	1193	1238
85°	471	807	739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	3.0
10°-20°	255.4	8.7
20°-30°	390.0	13.2
30°-40°	476.8	16.2
40°-50°	510.4	17.3
50°-60°	489.6	16.6
60°-70°	413.4	14.0
70°-80°	264.2	9.0
80°-90°	62.5	2.1
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°	734.1	24.9
0°-40°	1211.0	41.0
0°-60°	2211.0	74.9
0°-90°	2951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	937	931	934	933	931	89
15°	902	899	905	908	908	255
25°	838	837	850	853	854	386
35°	744	750	764	774	782	465
45°	625	635	657	687	707	482
55°	482	498	546	596	619	430
65°	317	347	424	484	511	312
75°	144	205	290	296	286	155
85°	30	51	52	51	48	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.5	935.5	935.5	935.5	935.5
2.5°	939.8	934.0	935.5	935.5	932.6
5°	936.9	931.1	934.0	932.6	931.1
7.5°	931.1	926.8	929.7	929.7	928.2
10°	923.9	919.5	922.4	923.9	923.9
12.5°	913.7	910.8	915.2	915.2	916.6
15°	902.1	899.2	905.0	907.9	907.9
17.5°	889.0	887.6	894.8	896.3	897.7
20°	874.5	873.0	881.7	881.7	884.6
22.5°	857.0	855.6	867.2	867.2	870.1
25°	838.2	836.7	849.8	852.7	854.1
27.5°	817.8	816.4	829.4	833.8	836.7
30°	794.6	794.6	809.1	814.9	819.3
32.5°	768.4	772.8	785.9	794.6	800.4
35°	743.7	749.6	764.1	774.3	781.5
37.5°	716.1	722.0	737.9	751.0	759.7
40°	687.1	694.4	713.2	727.8	740.8
42.5°	658.0	665.3	685.6	707.4	724.9
45°	624.6	634.8	656.6	687.1	707.4
47.5°	591.2	601.4	629.0	666.8	687.1
50°	556.4	568.0	601.4	645.0	666.8
52.5°	520.0	533.1	575.2	621.7	643.5
55°	482.3	498.3	546.2	595.6	618.8
57.5°	443.1	460.5	517.1	569.4	594.1
60°	402.4	424.2	486.6	541.8	568.0
62.5°	360.3	386.4	456.1	512.8	540.4
65°	316.7	347.2	424.2	483.7	511.3
67.5°	271.6	312.3	392.2	454.7	482.3
70°	226.6	274.5	358.8	422.7	450.3
72.5°	184.5	239.7	325.4	384.9	390.8
75°	143.8	204.8	290.5	296.3	286.2
77.5°	107.5	170.0	239.7	213.5	212.1
80°	77.0	136.5	154.0	158.3	159.8
82.5°	50.8	103.1	100.2	103.1	101.7
85°	30.5	50.8	52.3	50.8	47.9
87.5°	14.5	18.9	14.5	13.1	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)