

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: P263629

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263629
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-LD5-40SE-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2582.7 lumens
Efficiency: N/A
Efficacy: 82.8 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

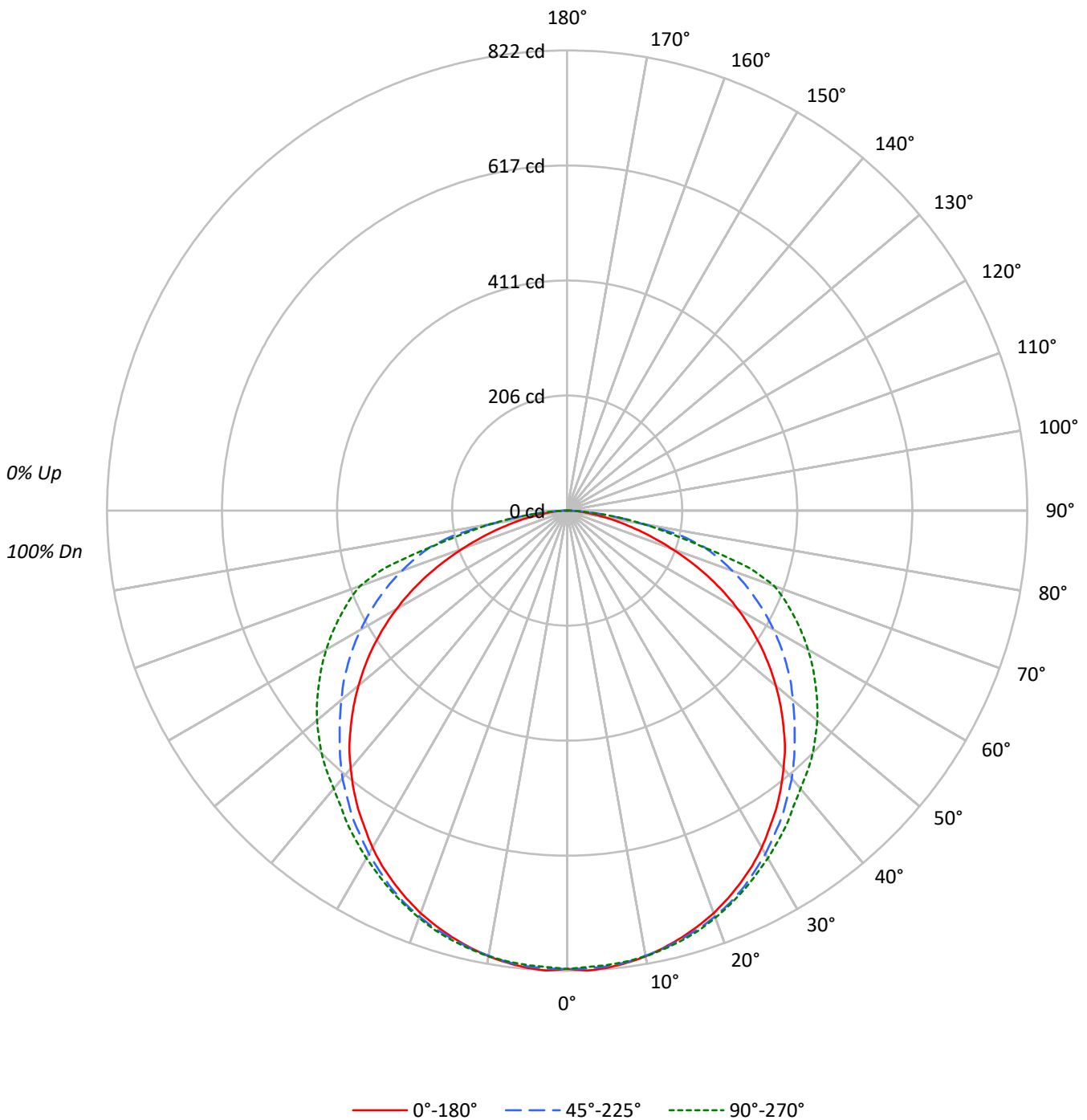
Input Watts (W): 31.201686
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1102	1102	1102
5°	1108	1104	1101
10°	1105	1103	1105
15°	1100	1103	1107
20°	1096	1105	1109
25°	1089	1104	1110
30°	1080	1100	1114
35°	1069	1098	1123
40°	1056	1096	1139
45°	1040	1093	1178
50°	1019	1102	1221
55°	990	1121	1270
60°	948	1146	1338
65°	882	1182	1425
70°	780	1235	1550
75°	655	1322	1302
80°	522	1044	1083
85°	412	707	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.0
10°-20°	223.5	8.7
20°-30°	341.4	13.2
30°-40°	417.3	16.2
40°-50°	446.7	17.3
50°-60°	428.5	16.6
60°-70°	361.8	14.0
70°-80°	231.2	9.0
80°-90°	54.7	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°	642.5	24.9
0°-40°	1059.8	41.0
0°-60°	1935.0	74.9
0°-90°	2582.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2582.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	820	815	818	816	815	78
15°	790	787	792	795	795	223
25°	734	732	744	746	748	338
35°	651	656	669	678	684	407
45°	547	556	575	601	619	422
55°	422	436	478	521	542	377
65°	277	304	371	423	448	273
75°	126	179	254	259	250	136
85°	27	44	46	44	42	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.7	818.7	818.7	818.7	818.7
2.5°	822.5	817.5	818.7	818.7	816.2
5°	820.0	814.9	817.5	816.2	814.9
7.5°	814.9	811.1	813.6	813.6	812.4
10°	808.6	804.7	807.3	808.6	808.6
12.5°	799.7	797.1	800.9	800.9	802.2
15°	789.5	786.9	792.0	794.6	794.6
17.5°	778.0	776.8	783.1	784.4	785.7
20°	765.3	764.1	771.7	771.7	774.2
22.5°	750.1	748.8	759.0	759.0	761.5
25°	733.5	732.3	743.7	746.3	747.5
27.5°	715.7	714.5	725.9	729.7	732.3
30°	695.4	695.4	708.1	713.2	717.0
32.5°	672.5	676.3	687.8	695.4	700.5
35°	650.9	656.0	668.7	677.6	684.0
37.5°	626.8	631.8	645.8	657.3	664.9
40°	601.3	607.7	624.2	636.9	648.4
42.5°	575.9	582.3	600.1	619.1	634.4
45°	546.7	555.6	574.6	601.3	619.1
47.5°	517.4	526.3	550.5	583.5	601.3
50°	486.9	497.1	526.3	564.5	583.5
52.5°	455.1	466.6	503.4	544.1	563.2
55°	422.1	436.1	478.0	521.2	541.6
57.5°	387.8	403.0	452.6	498.4	520.0
60°	352.2	371.2	425.9	474.2	497.1
62.5°	315.3	338.2	399.2	448.8	472.9
65°	277.1	303.8	371.2	423.3	447.5
67.5°	237.7	273.3	343.3	397.9	422.1
70°	198.3	240.3	314.0	370.0	394.1
72.5°	161.5	209.8	284.8	336.9	342.0
75°	125.9	179.3	254.3	259.3	250.4
77.5°	94.1	148.7	209.8	186.9	185.6
80°	67.4	119.5	134.8	138.6	139.8
82.5°	44.5	90.3	87.7	90.3	89.0
85°	26.7	44.5	45.8	44.5	42.0
87.5°	12.7	16.5	12.7	11.4	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)