

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: P263748

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263748
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-LD5-35SE-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2577.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

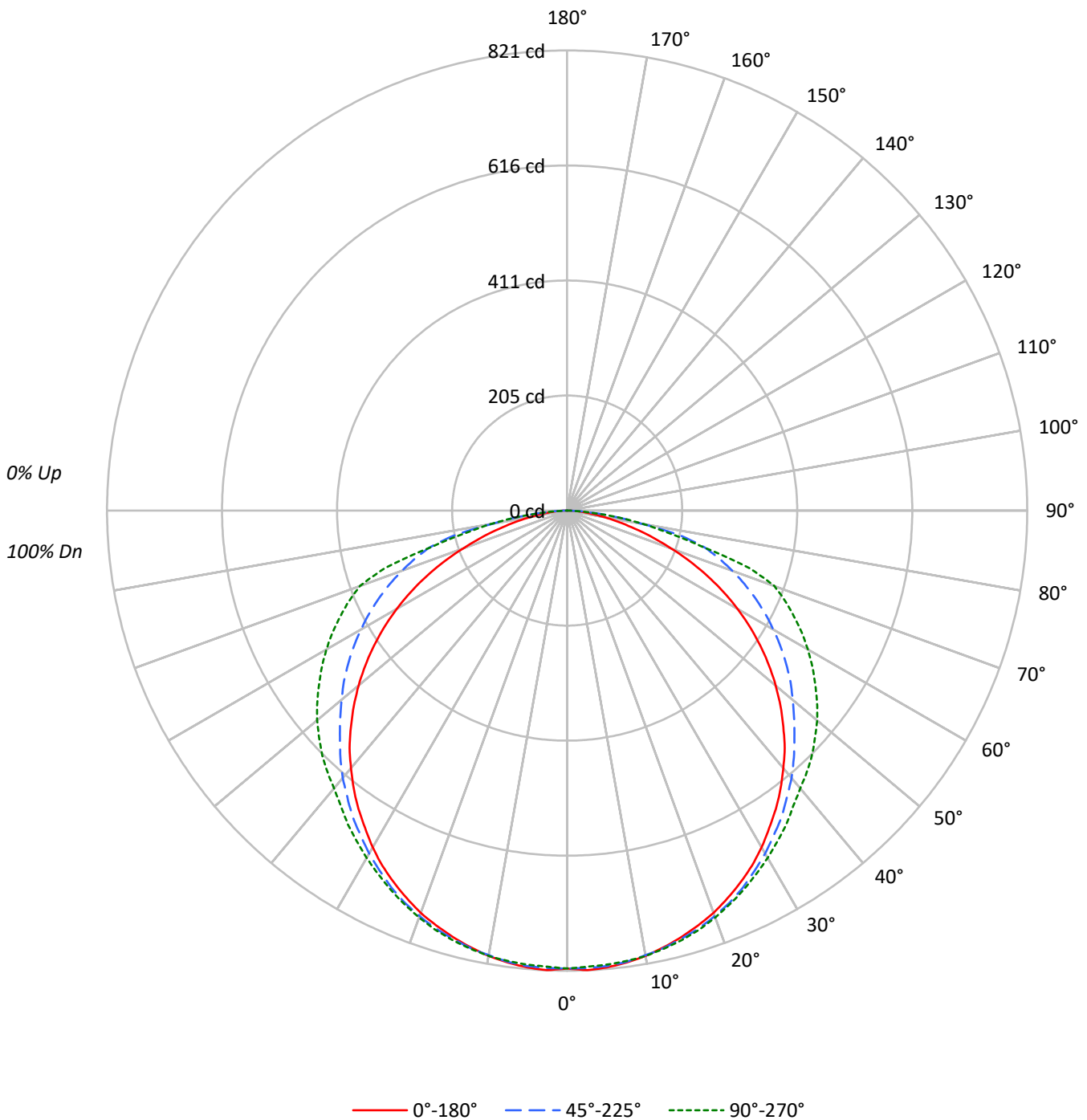
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1099	1099	1099
5°	1105	1102	1098
10°	1102	1101	1102
15°	1097	1101	1104
20°	1093	1103	1106
25°	1087	1102	1107
30°	1078	1098	1111
35°	1067	1096	1121
40°	1054	1094	1136
45°	1038	1091	1176
50°	1017	1099	1219
55°	988	1119	1268
60°	946	1144	1335
65°	880	1179	1422
70°	779	1233	1547
75°	653	1319	1299
80°	521	1042	1081
85°	411	706	647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	3.0
10°-20°	223.0	8.7
20°-30°	340.6	13.2
30°-40°	416.4	16.2
40°-50°	445.7	17.3
50°-60°	427.5	16.6
60°-70°	361.0	14.0
70°-80°	230.7	9.0
80°-90°	54.6	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°	641.1	24.9
0°-40°	1057.5	41.0
0°-60°	1930.8	74.9
0°-90°	2577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	818	813	816	814	813	78
15°	788	785	790	793	793	222
25°	732	731	742	745	746	337
35°	650	655	667	676	682	406
45°	546	554	573	600	618	421
55°	421	435	477	520	540	376
65°	276	303	370	422	446	273
75°	126	179	254	259	250	135
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°	816.9	816.9	816.9	816.9	816.9
2.5°	820.7	815.7	816.9	816.9	814.4
5°	818.2	813.1	815.7	814.4	813.1
7.5°	813.1	809.3	811.9	811.9	810.6
10°	806.8	803.0	805.5	806.8	806.8
12.5°	797.9	795.4	799.2	799.2	800.4
15°	787.8	785.2	790.3	792.8	792.8
17.5°	776.3	775.1	781.4	782.7	783.9
20°	763.7	762.4	770.0	770.0	772.5
22.5°	748.4	747.2	757.3	757.3	759.8
25°	731.9	730.7	742.1	744.6	745.9
27.5°	714.2	712.9	724.3	728.1	730.7
30°	693.9	693.9	706.6	711.6	715.4
32.5°	671.1	674.9	686.3	693.9	699.0
35°	649.5	654.6	667.2	676.1	682.5
37.5°	625.4	630.5	644.4	655.8	663.4
40°	600.0	606.4	622.8	635.5	646.9
42.5°	574.6	581.0	598.7	617.8	633.0
45°	545.5	554.3	573.4	600.0	617.8
47.5°	516.3	525.2	549.3	582.3	600.0
50°	485.8	496.0	525.2	563.2	582.3
52.5°	454.1	465.5	502.3	542.9	562.0
55°	421.2	435.1	477.0	520.1	540.4
57.5°	386.9	402.1	451.6	497.3	518.8
60°	351.4	370.4	425.0	473.2	496.0
62.5°	314.6	337.4	398.3	447.8	471.9
65°	276.5	303.2	370.4	422.4	446.5
67.5°	237.2	272.7	342.5	397.0	421.2
70°	197.9	239.8	313.3	369.1	393.2
72.5°	161.1	209.3	284.1	336.2	341.2
75°	125.6	178.9	253.7	258.8	249.9
77.5°	93.9	148.4	209.3	186.5	185.2
80°	67.2	119.2	134.5	138.3	139.5
82.5°	44.4	90.1	87.5	90.1	88.8
85°	26.6	44.4	45.7	44.4	41.9
87.5°	12.7	16.5	12.7	11.4	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)