

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: P263326

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263326
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-LD5-35SE-SQP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2424.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

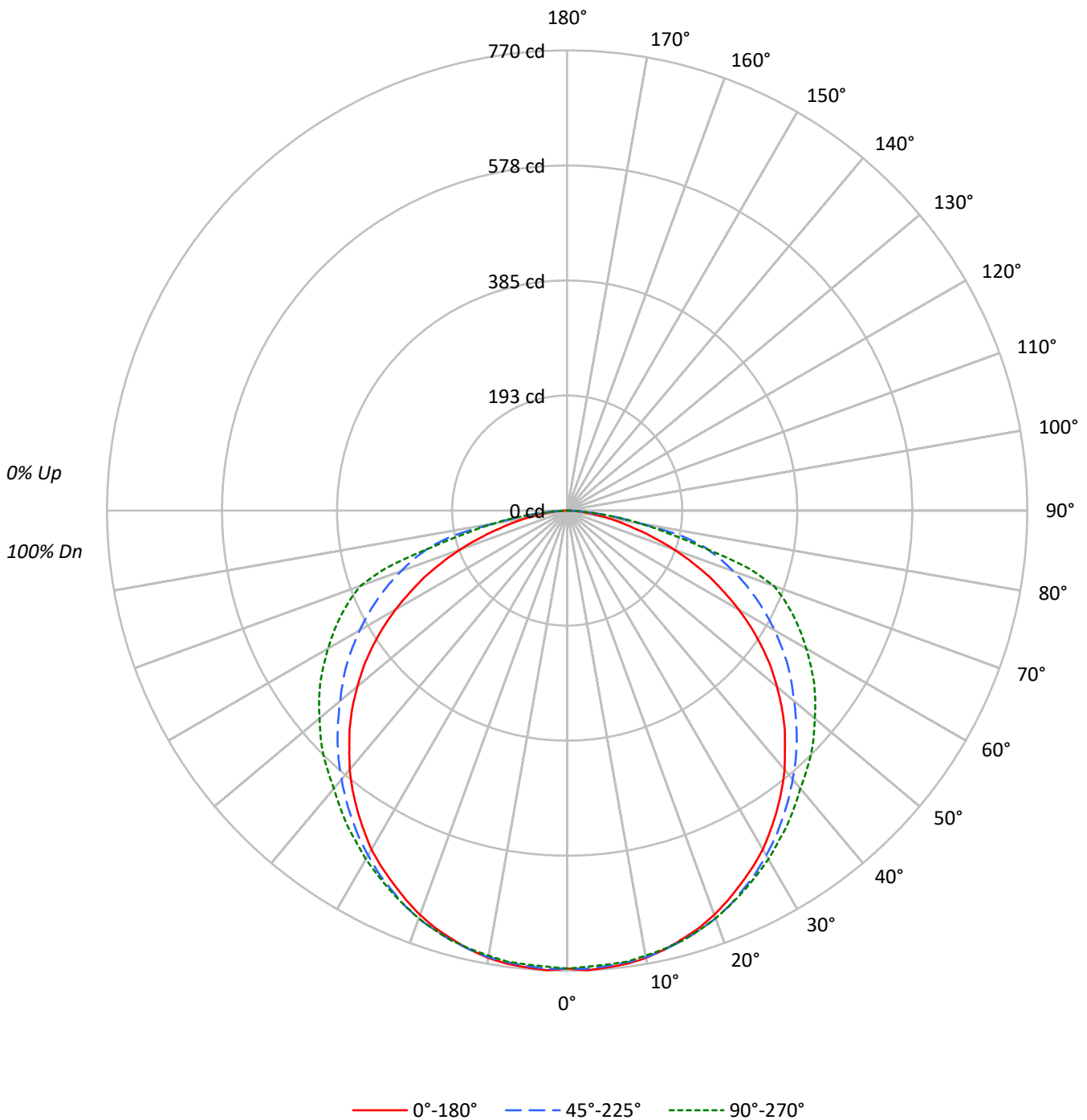
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1031	1031	1031
5°	1037	1033	1030
10°	1038	1037	1033
15°	1034	1038	1038
20°	1031	1040	1040
25°	1022	1037	1041
30°	1017	1035	1047
35°	1006	1032	1055
40°	994	1031	1067
45°	979	1034	1098
50°	959	1038	1132
55°	934	1057	1184
60°	893	1078	1243
65°	837	1112	1331
70°	749	1162	1448
75°	618	1243	1198
80°	504	961	970
85°	406	638	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.0
10°-20°	210.0	8.7
20°-30°	321.0	13.2
30°-40°	392.5	16.2
40°-50°	420.0	17.3
50°-60°	402.2	16.6
60°-70°	340.2	14.0
70°-80°	215.7	8.9
80°-90°	49.6	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°	603.7	24.9
0°-40°	996.3	41.1
0°-60°	1818.5	75.0
0°-90°	2424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	768	764	765	764	762	73
15°	742	741	745	745	745	210
25°	689	689	699	701	701	318
35°	612	616	628	637	642	383
45°	515	523	543	566	577	396
55°	398	411	451	488	505	355
65°	263	288	349	397	418	259
75°	119	168	239	238	230	129
85°	26	40	41	38	39	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.3	766.3	766.3	766.3	766.3
2.5°	770.0	766.3	767.5	766.3	763.8
5°	767.5	763.8	765.0	763.8	762.5
7.5°	765.0	761.3	762.5	761.3	761.3
10°	760.0	756.3	758.8	757.5	756.3
12.5°	752.5	750.0	752.5	751.2	751.2
15°	742.5	741.2	745.0	745.0	745.0
17.5°	732.5	731.2	736.2	736.2	736.2
20°	719.9	718.7	726.2	726.2	726.2
22.5°	704.9	703.7	713.7	713.7	713.7
25°	688.6	688.6	698.7	701.2	701.2
27.5°	672.4	672.4	683.6	687.4	687.4
30°	654.8	654.8	666.1	671.1	673.6
32.5°	633.6	636.1	648.6	654.8	657.3
35°	612.3	616.0	628.5	637.3	642.3
37.5°	589.7	593.5	608.5	618.5	624.8
40°	565.9	570.9	587.2	599.7	607.3
42.5°	539.6	547.2	565.9	582.2	592.2
45°	514.6	523.4	543.4	565.9	577.2
47.5°	487.1	497.1	519.6	548.4	559.7
50°	458.3	468.3	495.8	528.4	540.9
52.5°	429.5	440.7	473.3	508.3	523.4
55°	398.2	410.7	450.7	488.3	504.6
57.5°	365.6	380.6	425.7	465.8	483.3
60°	331.8	350.6	400.7	443.2	462.0
62.5°	296.7	319.3	375.6	420.7	440.7
65°	262.9	288.0	349.3	396.9	418.2
67.5°	226.6	257.9	323.0	374.4	394.4
70°	190.3	226.6	295.5	348.1	368.1
72.5°	154.0	197.8	267.9	315.5	315.5
75°	118.9	167.8	239.1	237.9	230.4
77.5°	90.1	140.2	196.6	167.8	169.0
80°	65.1	112.7	124.0	124.0	125.2
82.5°	43.8	86.4	80.1	78.9	81.4
85°	26.3	40.1	41.3	37.6	38.8
87.5°	12.5	13.8	11.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)