

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: P263237

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263237
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-LD5-35-SQP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2422.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

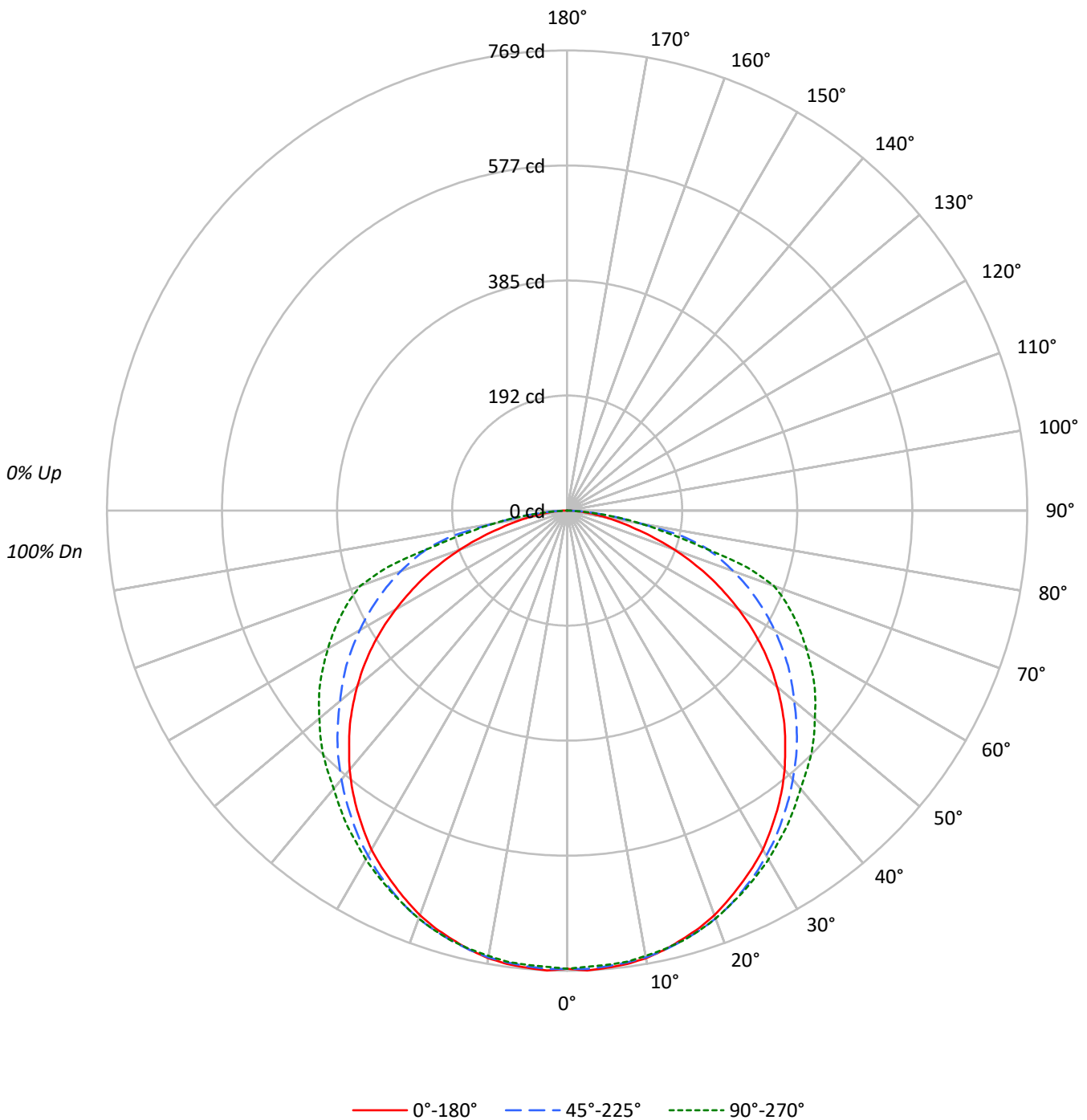
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1030	1030	1030
5°	1036	1032	1029
10°	1038	1036	1032
15°	1033	1037	1037
20°	1030	1039	1039
25°	1022	1036	1040
30°	1017	1034	1046
35°	1005	1032	1054
40°	993	1030	1066
45°	978	1033	1097
50°	958	1037	1131
55°	933	1057	1183
60°	892	1077	1242
65°	836	1111	1330
70°	748	1161	1447
75°	618	1242	1197
80°	504	960	969
85°	406	638	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.0
10°-20°	209.8	8.7
20°-30°	320.7	13.2
30°-40°	392.2	16.2
40°-50°	419.7	17.3
50°-60°	401.9	16.6
60°-70°	339.9	14.0
70°-80°	215.5	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°	603.2	24.9
0°-40°	995.5	41.1
0°-60°	1817.0	75.0
0°-90°	2422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	767	763	764	763	762	73
15°	742	741	744	744	744	210
25°	688	688	698	701	701	317
35°	612	616	628	637	642	383
45°	514	523	543	566	577	396
55°	398	410	450	488	504	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°	765.6	765.6	765.6	765.6	765.6
2.5°	769.4	765.6	766.9	765.6	763.1
5°	766.9	763.1	764.4	763.1	761.9
7.5°	764.4	760.6	761.9	760.6	760.6
10°	759.4	755.6	758.1	756.9	755.6
12.5°	751.9	749.4	751.9	750.6	750.6
15°	741.9	740.6	744.4	744.4	744.4
17.5°	731.9	730.6	735.6	735.6	735.6
20°	719.4	718.1	725.6	725.6	725.6
22.5°	704.3	703.1	713.1	713.1	713.1
25°	688.1	688.1	698.1	700.6	700.6
27.5°	671.8	671.8	683.1	686.8	686.8
30°	654.3	654.3	665.6	670.6	673.1
32.5°	633.0	635.5	648.0	654.3	656.8
35°	611.8	615.5	628.0	636.8	641.8
37.5°	589.2	593.0	608.0	618.0	624.3
40°	565.5	570.5	586.7	599.3	606.8
42.5°	539.2	546.7	565.5	581.7	591.7
45°	514.2	522.9	543.0	565.5	576.7
47.5°	486.7	496.7	519.2	548.0	559.2
50°	457.9	467.9	495.4	527.9	540.5
52.5°	429.1	440.4	472.9	507.9	522.9
55°	397.8	410.3	450.4	487.9	504.2
57.5°	365.3	380.3	425.4	465.4	482.9
60°	331.5	350.3	400.3	442.9	461.6
62.5°	296.5	319.0	375.3	420.4	440.4
65°	262.7	287.7	349.0	396.6	417.8
67.5°	226.4	257.7	322.8	374.1	394.1
70°	190.2	226.4	295.2	347.8	367.8
72.5°	153.9	197.7	267.7	315.3	315.3
75°	118.8	167.6	238.9	237.7	230.2
77.5°	90.1	140.1	196.4	167.6	168.9
80°	65.1	112.6	123.9	123.9	125.1
82.5°	43.8	86.3	80.1	78.8	81.3
85°	26.3	40.0	41.3	37.5	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)