

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: P263232

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263232
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2199.0 lumens
Efficiency: N/A
Efficacy: 91.6 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

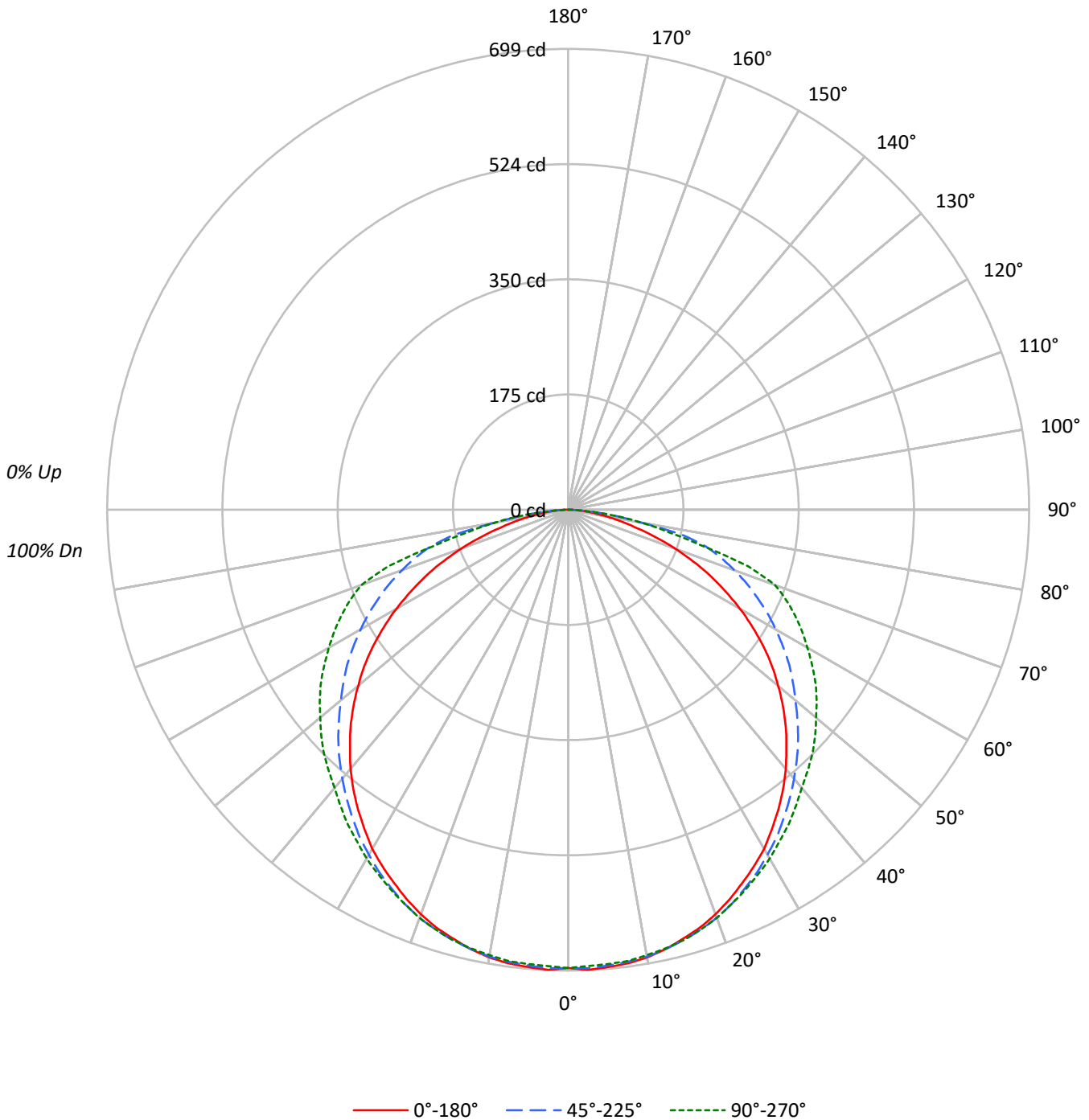
Input Watts (W): 23.994
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	935	935	935
5°	940	937	934
10°	942	940	937
15°	938	941	941
20°	935	943	943
25°	927	941	944
30°	923	939	949
35°	912	937	957
40°	902	936	968
45°	888	938	996
50°	870	942	1027
55°	847	959	1074
60°	810	978	1128
65°	759	1009	1208
70°	679	1055	1314
75°	561	1128	1087
80°	458	871	880
85°	369	579	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.0
10°-20°	190.5	8.7
20°-30°	291.2	13.2
30°-40°	356.1	16.2
40°-50°	381.0	17.3
50°-60°	364.9	16.6
60°-70°	308.6	14.0
70°-80°	195.6	8.9
80°-90°	45.0	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°	547.7	24.9
0°-40°	903.8	41.1
0°-60°	1649.7	75.0
0°-90°	2199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	696	693	694	693	692	66
15°	674	672	676	676	676	190
25°	625	625	634	636	636	288
35°	555	559	570	578	583	347
45°	467	475	493	513	524	360
55°	361	373	409	443	458	322
65°	238	261	317	360	379	235
75°	108	152	217	216	209	117
85°	24	36	38	34	35	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.1	695.1	695.1	695.1	695.1
2.5°	698.6	695.1	696.3	695.1	692.9
5°	696.3	692.9	694.0	692.9	691.7
7.5°	694.0	690.6	691.7	690.6	690.6
10°	689.5	686.1	688.3	687.2	686.1
12.5°	682.7	680.4	682.7	681.5	681.5
15°	673.6	672.4	675.8	675.8	675.8
17.5°	664.5	663.3	667.9	667.9	667.9
20°	653.1	652.0	658.8	658.8	658.8
22.5°	639.5	638.4	647.4	647.4	647.4
25°	624.7	624.7	633.8	636.1	636.1
27.5°	610.0	610.0	620.2	623.6	623.6
30°	594.1	594.1	604.3	608.8	611.1
32.5°	574.7	577.0	588.4	594.1	596.3
35°	555.4	558.8	570.2	578.2	582.7
37.5°	535.0	538.4	552.0	561.1	566.8
40°	513.4	518.0	532.7	544.1	550.9
42.5°	489.6	496.4	513.4	528.2	537.3
45°	466.8	474.8	493.0	513.4	523.6
47.5°	441.8	450.9	471.4	497.5	507.7
50°	415.7	424.8	449.8	479.3	490.7
52.5°	389.6	399.8	429.4	461.2	474.8
55°	361.2	372.6	408.9	443.0	457.8
57.5°	331.7	345.3	386.2	422.5	438.4
60°	301.0	318.0	363.5	402.1	419.1
62.5°	269.2	289.6	340.8	381.6	399.8
65°	238.5	261.2	316.9	360.1	379.4
67.5°	205.6	234.0	293.1	339.6	357.8
70°	172.7	205.6	268.1	315.8	333.9
72.5°	139.7	179.5	243.1	286.2	286.2
75°	107.9	152.2	216.9	215.8	209.0
77.5°	81.8	127.2	178.3	152.2	153.3
80°	59.1	102.2	112.4	112.4	113.6
82.5°	39.8	78.4	72.7	71.6	73.8
85°	23.9	36.3	37.5	34.1	35.2
87.5°	11.4	12.5	10.2	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)