

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: P263322

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263322
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2223.0 lumens
Efficiency: N/A
Efficacy: 86.0 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

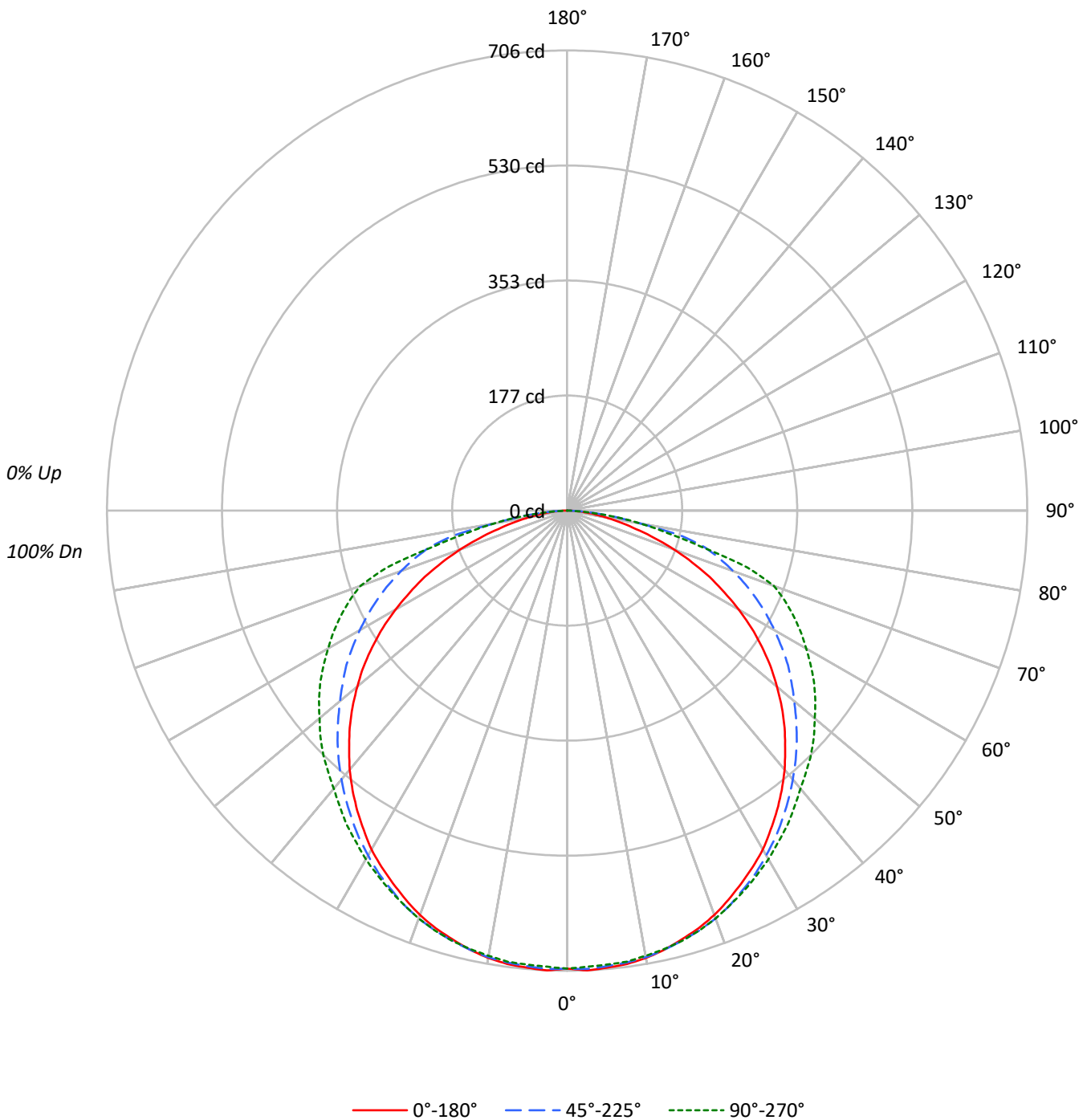
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	945	945	945
5°	951	948	944
10°	952	951	947
15°	948	952	952
20°	945	954	954
25°	938	951	955
30°	933	949	960
35°	922	947	968
40°	912	946	978
45°	898	948	1007
50°	880	952	1038
55°	856	970	1085
60°	819	989	1140
65°	768	1020	1221
70°	686	1066	1328
75°	567	1140	1098
80°	463	881	890
85°	372	585	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.0
10°-20°	192.6	8.7
20°-30°	294.3	13.2
30°-40°	360.0	16.2
40°-50°	385.2	17.3
50°-60°	368.8	16.6
60°-70°	312.0	14.0
70°-80°	197.8	8.9
80°-90°	45.5	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°	553.7	24.9
0°-40°	913.7	41.1
0°-60°	1667.7	75.0
0°-90°	2223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	704	700	702	700	699	67
15°	681	680	683	683	683	192
25°	632	632	641	643	643	291
35°	562	565	576	584	589	351
45°	472	480	498	519	529	364
55°	365	377	413	448	463	326
65°	241	264	320	364	384	238
75°	109	154	219	218	211	119
85°	24	37	38	34	36	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.7	702.7	702.7	702.7	702.7
2.5°	706.2	702.7	703.9	702.7	700.4
5°	703.9	700.4	701.6	700.4	699.3
7.5°	701.6	698.1	699.3	698.1	698.1
10°	697.0	693.5	695.8	694.7	693.5
12.5°	690.1	687.8	690.1	689.0	689.0
15°	680.9	679.8	683.2	683.2	683.2
17.5°	671.7	670.6	675.2	675.2	675.2
20°	660.2	659.1	666.0	666.0	666.0
22.5°	646.5	645.3	654.5	654.5	654.5
25°	631.5	631.5	640.7	643.0	643.0
27.5°	616.6	616.6	626.9	630.4	630.4
30°	600.5	600.5	610.9	615.5	617.8
32.5°	581.0	583.3	594.8	600.5	602.8
35°	561.5	564.9	576.4	584.5	589.1
37.5°	540.8	544.3	558.1	567.2	573.0
40°	519.0	523.6	538.5	550.0	556.9
42.5°	494.9	501.8	519.0	533.9	543.1
45°	471.9	480.0	498.3	519.0	529.3
47.5°	446.7	455.9	476.5	502.9	513.3
50°	420.3	429.4	454.7	484.6	496.0
52.5°	393.9	404.2	434.0	466.2	480.0
55°	365.1	376.6	413.4	447.8	462.7
57.5°	335.3	349.1	390.4	427.2	443.2
60°	304.3	321.5	367.4	406.5	423.7
62.5°	272.1	292.8	344.5	385.8	404.2
65°	241.1	264.1	320.4	364.0	383.5
67.5°	207.8	236.5	296.2	343.3	361.7
70°	174.5	207.8	271.0	319.2	337.6
72.5°	141.2	181.4	245.7	289.4	289.4
75°	109.1	153.9	219.3	218.2	211.3
77.5°	82.7	128.6	180.3	153.9	155.0
80°	59.7	103.3	113.7	113.7	114.8
82.5°	40.2	79.2	73.5	72.3	74.6
85°	24.1	36.7	37.9	34.4	35.6
87.5°	11.5	12.6	10.3	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)