

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: P263127

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263127
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-L83050-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: 2225.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

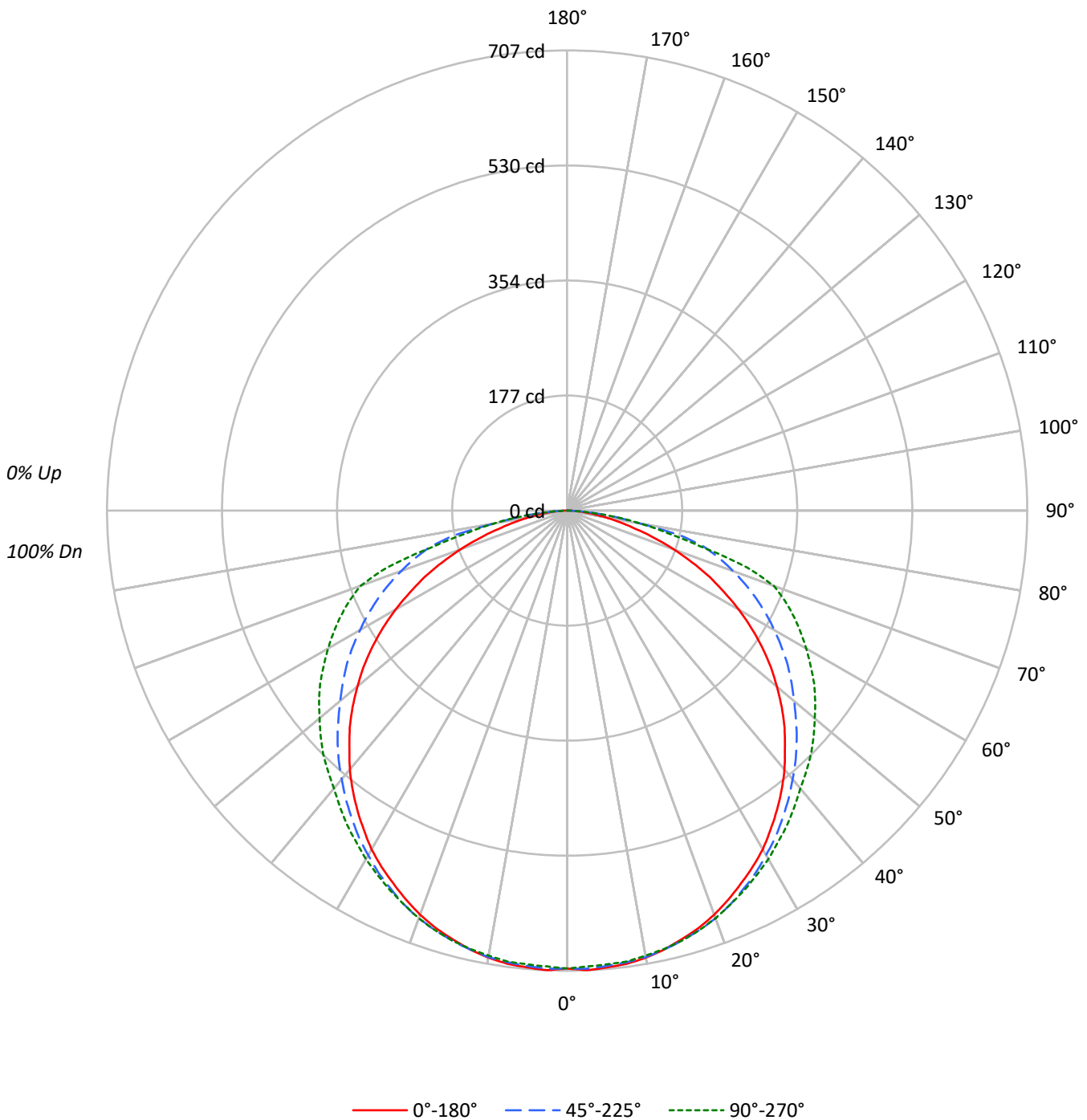
Input Watts (W): 25.98792
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	946	946	946
5°	952	948	945
10°	953	952	948
15°	949	953	953
20°	946	954	954
25°	938	952	955
30°	934	950	961
35°	923	948	968
40°	912	947	979
45°	899	949	1008
50°	880	953	1039
55°	857	970	1087
60°	820	990	1141
65°	769	1021	1222
70°	687	1067	1329
75°	568	1141	1099
80°	463	882	890
85°	372	585	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	3.0
10°-20°	192.8	8.7
20°-30°	294.6	13.2
30°-40°	360.3	16.2
40°-50°	385.5	17.3
50°-60°	369.2	16.6
60°-70°	312.3	14.0
70°-80°	198.0	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°	554.2	24.9
0°-40°	914.5	41.1
0°-60°	1669.2	75.0
0°-90°	2225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	704	701	702	701	700	67
15°	682	680	684	684	684	192
25°	632	632	641	644	644	292
35°	562	565	577	585	590	352
45°	472	480	499	520	530	364
55°	366	377	414	448	463	326
65°	241	264	321	364	384	238
75°	109	154	220	218	212	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°	703.4	703.4	703.4	703.4	703.4
2.5°	706.8	703.4	704.5	703.4	701.1
5°	704.5	701.1	702.2	701.1	699.9
7.5°	702.2	698.8	699.9	698.8	698.8
10°	697.6	694.2	696.5	695.3	694.2
12.5°	690.7	688.4	690.7	689.6	689.6
15°	681.5	680.4	683.8	683.8	683.8
17.5°	672.3	671.2	675.8	675.8	675.8
20°	660.8	659.7	666.6	666.6	666.6
22.5°	647.0	645.9	655.1	655.1	655.1
25°	632.1	632.1	641.3	643.6	643.6
27.5°	617.2	617.2	627.5	631.0	631.0
30°	601.1	601.1	611.4	616.0	618.3
32.5°	581.5	583.8	595.3	601.1	603.4
35°	562.0	565.4	576.9	585.0	589.6
37.5°	541.3	544.8	558.6	567.7	573.5
40°	519.5	524.1	539.0	550.5	557.4
42.5°	495.3	502.2	519.5	534.4	543.6
45°	472.4	480.4	498.8	519.5	529.8
47.5°	447.1	456.3	477.0	503.4	513.7
50°	420.6	429.8	455.1	485.0	496.5
52.5°	394.2	404.5	434.4	466.6	480.4
55°	365.5	377.0	413.7	448.2	463.2
57.5°	335.6	349.4	390.8	427.5	443.6
60°	304.6	321.8	367.8	406.8	424.1
62.5°	272.4	293.1	344.8	386.2	404.5
65°	241.4	264.3	320.7	364.3	383.9
67.5°	208.0	236.8	296.5	343.6	362.0
70°	174.7	208.0	271.2	319.5	337.9
72.5°	141.4	181.6	245.9	289.6	289.6
75°	109.2	154.0	219.5	218.4	211.5
77.5°	82.7	128.7	180.4	154.0	155.2
80°	59.8	103.4	113.8	113.8	114.9
82.5°	40.2	79.3	73.6	72.4	74.7
85°	24.1	36.8	37.9	34.5	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)