

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: P263130

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263130
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2496.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

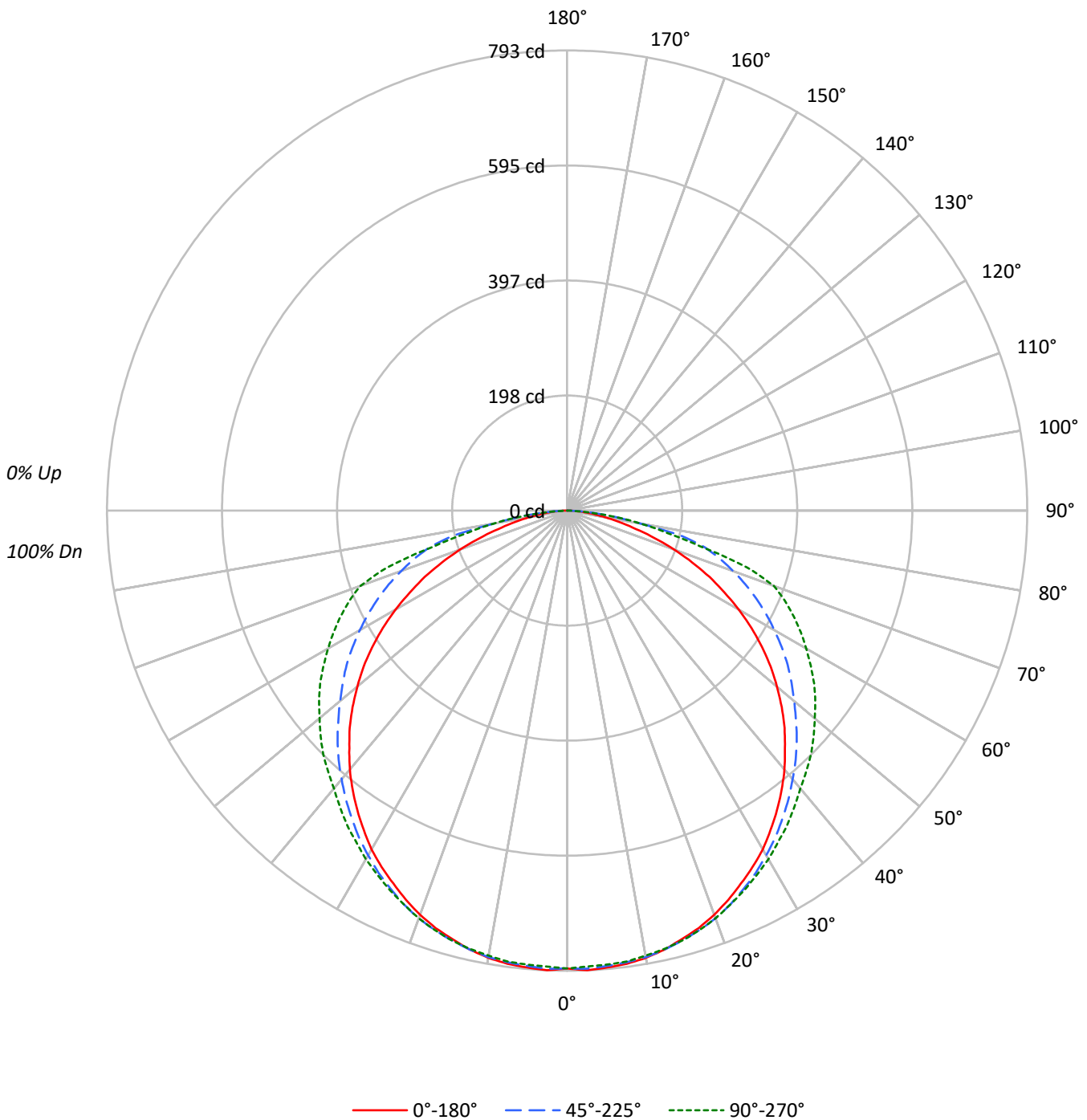
Input Watts (W): 27.31596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1062	1062	1062
5°	1067	1064	1061
10°	1069	1067	1064
15°	1065	1069	1069
20°	1061	1071	1071
25°	1053	1068	1072
30°	1048	1066	1078
35°	1036	1063	1086
40°	1023	1062	1098
45°	1008	1065	1131
50°	988	1069	1166
55°	962	1089	1219
60°	920	1110	1280
65°	862	1145	1371
70°	771	1197	1491
75°	637	1280	1233
80°	519	989	999
85°	418	656	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.0
10°-20°	216.2	8.7
20°-30°	330.5	13.2
30°-40°	404.2	16.2
40°-50°	432.5	17.3
50°-60°	414.1	16.6
60°-70°	350.3	14.0
70°-80°	222.1	8.9
80°-90°	51.1	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°	621.7	24.9
0°-40°	1025.9	41.1
0°-60°	1872.5	75.0
0°-90°	2496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	790	786	788	786	785	75
15°	764	763	767	767	767	216
25°	709	709	719	722	722	327
35°	630	634	647	656	661	394
45°	530	539	560	583	594	408
55°	410	423	464	503	520	366
65°	271	296	360	409	431	267
75°	122	173	246	245	237	133
85°	27	41	42	39	40	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.0	789.0	789.0	789.0	789.0
2.5°	792.9	789.0	790.3	789.0	786.5
5°	790.3	786.5	787.7	786.5	785.2
7.5°	787.7	783.9	785.2	783.9	783.9
10°	782.6	778.7	781.3	780.0	778.7
12.5°	774.9	772.3	774.9	773.6	773.6
15°	764.5	763.2	767.1	767.1	767.1
17.5°	754.2	752.9	758.1	758.1	758.1
20°	741.3	740.0	747.8	747.8	747.8
22.5°	725.9	724.6	734.9	734.9	734.9
25°	709.1	709.1	719.4	722.0	722.0
27.5°	692.3	692.3	703.9	707.8	707.8
30°	674.3	674.3	685.9	691.0	693.6
32.5°	652.4	654.9	667.8	674.3	676.9
35°	630.5	634.3	647.2	656.2	661.4
37.5°	607.2	611.1	626.6	636.9	643.3
40°	582.7	587.9	604.7	617.6	625.3
42.5°	555.7	563.4	582.7	599.5	609.8
45°	529.9	538.9	559.5	582.7	594.4
47.5°	501.5	511.8	535.0	564.7	576.3
50°	471.9	482.2	510.6	544.1	557.0
52.5°	442.2	453.8	487.3	523.4	538.9
55°	410.0	422.9	464.1	502.8	519.6
57.5°	376.5	391.9	438.4	479.6	497.7
60°	341.7	361.0	412.6	456.4	475.7
62.5°	305.6	328.8	386.8	433.2	453.8
65°	270.7	296.5	359.7	408.7	430.6
67.5°	233.4	265.6	332.6	385.5	406.1
70°	196.0	233.4	304.3	358.4	379.0
72.5°	158.6	203.7	275.9	324.9	324.9
75°	122.5	172.8	246.3	245.0	237.2
77.5°	92.8	144.4	202.4	172.8	174.1
80°	67.0	116.0	127.6	127.6	128.9
82.5°	45.1	89.0	82.5	81.2	83.8
85°	27.1	41.3	42.5	38.7	40.0
87.5°	12.9	14.2	11.6	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)