

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: P263329

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263329
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2461.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

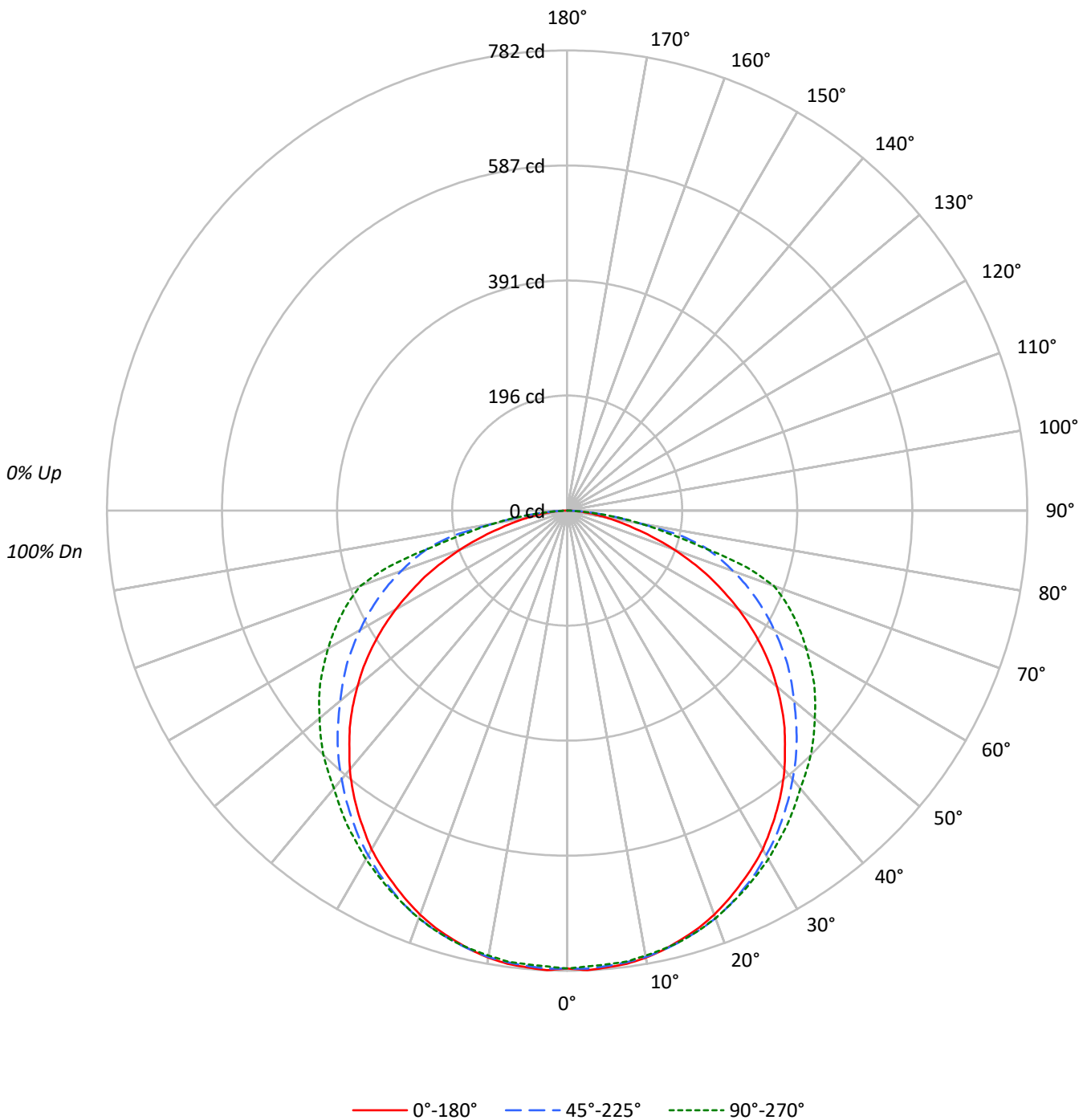
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1047	1047	1047
5°	1052	1049	1046
10°	1054	1052	1049
15°	1050	1054	1054
20°	1047	1056	1056
25°	1038	1053	1057
30°	1033	1051	1063
35°	1021	1048	1071
40°	1009	1047	1083
45°	994	1050	1115
50°	974	1054	1150
55°	948	1073	1202
60°	907	1095	1262
65°	850	1129	1352
70°	760	1180	1470
75°	628	1262	1216
80°	512	975	985
85°	412	647	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	3.0
10°-20°	213.2	8.7
20°-30°	325.9	13.2
30°-40°	398.5	16.2
40°-50°	426.4	17.3
50°-60°	408.3	16.6
60°-70°	345.4	14.0
70°-80°	218.9	8.9
80°-90°	50.4	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°	613.0	24.9
0°-40°	1011.5	41.1
0°-60°	1846.3	75.0
0°-90°	2461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	779	775	777	775	774	74
15°	754	752	756	756	756	213
25°	699	699	709	712	712	323
35°	622	625	638	647	652	389
45°	522	531	552	575	586	403
55°	404	417	458	496	512	361
65°	267	292	355	403	425	263
75°	121	170	243	242	234	131
85°	27	41	42	38	39	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.0	778.0	778.0	778.0	778.0
2.5°	781.8	778.0	779.2	778.0	775.4
5°	779.2	775.4	776.7	775.4	774.2
7.5°	776.7	772.9	774.2	772.9	772.9
10°	771.6	767.8	770.3	769.1	767.8
12.5°	764.0	761.4	764.0	762.7	762.7
15°	753.8	752.5	756.4	756.4	756.4
17.5°	743.6	742.4	747.5	747.5	747.5
20°	730.9	729.7	737.3	737.3	737.3
22.5°	715.7	714.4	724.6	724.6	724.6
25°	699.2	699.2	709.3	711.9	711.9
27.5°	682.6	682.6	694.1	697.9	697.9
30°	664.8	664.8	676.3	681.4	683.9
32.5°	643.2	645.8	658.5	664.8	667.4
35°	621.6	625.4	638.1	647.0	652.1
37.5°	598.7	602.5	617.8	628.0	634.3
40°	574.6	579.7	596.2	608.9	616.5
42.5°	547.9	555.5	574.6	591.1	601.3
45°	522.5	531.4	551.7	574.6	586.0
47.5°	494.5	504.7	527.5	556.8	568.2
50°	465.3	475.4	503.4	536.4	549.2
52.5°	436.0	447.5	480.5	516.1	531.4
55°	404.2	417.0	457.6	495.8	512.3
57.5°	371.2	386.4	432.2	472.9	490.7
60°	336.9	355.9	406.8	450.0	469.1
62.5°	301.3	324.2	381.4	427.1	447.5
65°	266.9	292.4	354.7	403.0	424.6
67.5°	230.1	261.9	328.0	380.1	400.4
70°	193.2	230.1	300.0	353.4	373.7
72.5°	156.4	200.8	272.0	320.3	320.3
75°	120.8	170.3	242.8	241.5	233.9
77.5°	91.5	142.4	199.6	170.3	171.6
80°	66.1	114.4	125.8	125.8	127.1
82.5°	44.5	87.7	81.4	80.1	82.6
85°	26.7	40.7	41.9	38.1	39.4
87.5°	12.7	14.0	11.4	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)