

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: P259112

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1584.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

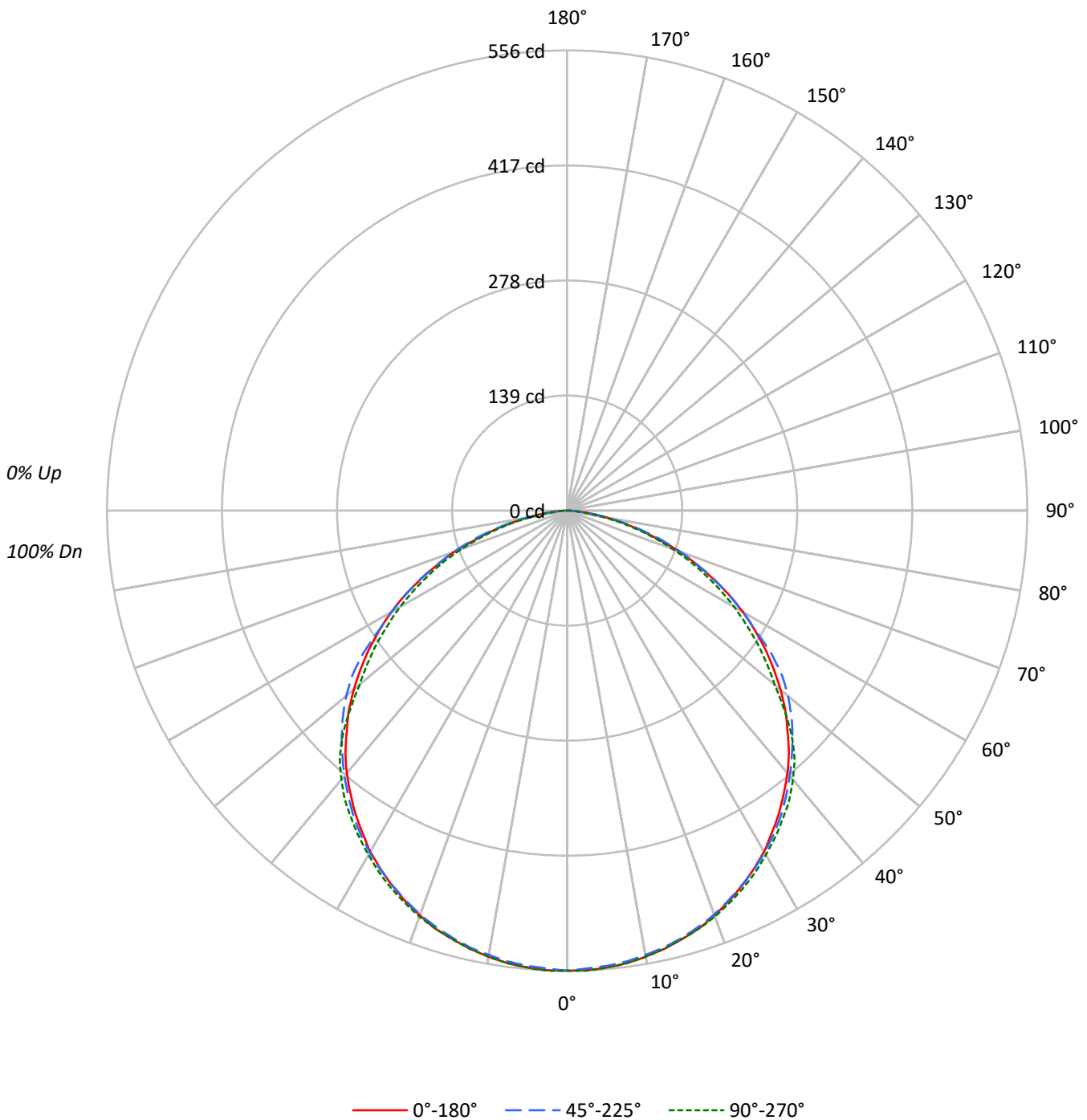
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41		52	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1496	1496	1496
5°	1497	1491	1497
10°	1495	1489	1495
15°	1493	1489	1493
20°	1490	1487	1495
25°	1485	1483	1494
30°	1479	1482	1492
35°	1466	1479	1493
40°	1455	1470	1491
45°	1433	1466	1460
50°	1408	1458	1370
55°	1372	1412	1319
60°	1320	1317	1256
65°	1237	1244	1175
70°	1135	1148	1064
75°	953	998	910
80°	756	773	640
85°	497	429	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	3.3
10°-20°	151.3	9.6
20°-30°	231.0	14.6
30°-40°	281.9	17.8
40°-50°	294.8	18.6
50°-60°	260.9	16.5
60°-70°	192.2	12.1
70°-80°	99.5	6.3
80°-90°	19.8	1.3
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°	435.0	27.5
0°-40°	716.8	45.3
0°-60°	1272.5	80.3
0°-90°	1584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	554	554	552	554	554	53
15°	536	536	534	536	536	151
25°	500	500	500	503	503	231
35°	446	448	450	454	454	279
45°	377	380	385	388	384	291
55°	292	298	301	285	281	261
65°	194	206	195	188	185	192
75°	92	98	96	90	88	98
85°	16	17	14	12	12	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	555.9	555.9	555.9	555.9	555.9
2.5°	555.9	555.9	553.7	555.9	556.4
5°	554.2	554.2	552.1	554.2	554.2
7.5°	551.6	551.0	549.4	551.6	551.6
10°	547.3	547.3	545.1	547.8	547.3
12.5°	542.4	541.9	540.8	543.0	542.4
15°	536.0	536.0	534.4	536.5	536.0
17.5°	529.6	529.0	527.4	529.6	529.6
20°	520.4	519.9	519.4	521.5	522.1
22.5°	510.8	510.2	509.7	512.9	512.9
25°	500.1	500.1	499.5	502.7	503.3
27.5°	488.2	488.2	488.8	493.1	492.5
30°	475.9	475.9	477.0	480.2	480.2
32.5°	460.9	462.0	464.1	467.9	467.9
35°	446.4	447.5	450.2	454.4	454.4
37.5°	430.3	431.9	434.6	440.0	441.0
40°	414.2	415.3	418.5	424.4	424.4
42.5°	396.5	397.6	401.9	407.8	406.7
45°	376.6	379.9	385.2	388.5	383.6
47.5°	357.9	360.0	367.5	363.8	355.7
50°	336.4	340.7	348.2	334.8	327.3
52.5°	314.4	319.2	327.3	308.5	304.2
55°	292.4	298.3	301.0	285.4	281.1
57.5°	268.8	275.2	269.9	260.8	256.5
60°	245.2	252.7	244.7	236.1	233.4
62.5°	220.5	229.1	220.0	212.5	208.7
65°	194.2	206.0	195.3	187.8	184.6
67.5°	168.5	180.8	169.5	163.1	161.0
70°	144.3	151.3	145.9	139.5	135.2
72.5°	115.4	122.3	121.3	114.3	111.6
75°	91.7	98.2	96.0	90.1	87.5
77.5°	68.1	75.1	73.0	66.0	64.9
80°	48.8	53.7	49.9	43.5	41.3
82.5°	30.6	34.3	29.5	24.7	23.6
85°	16.1	17.2	13.9	12.3	11.8
87.5°	5.4	5.9	5.9	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)