

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: P260477

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2633.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

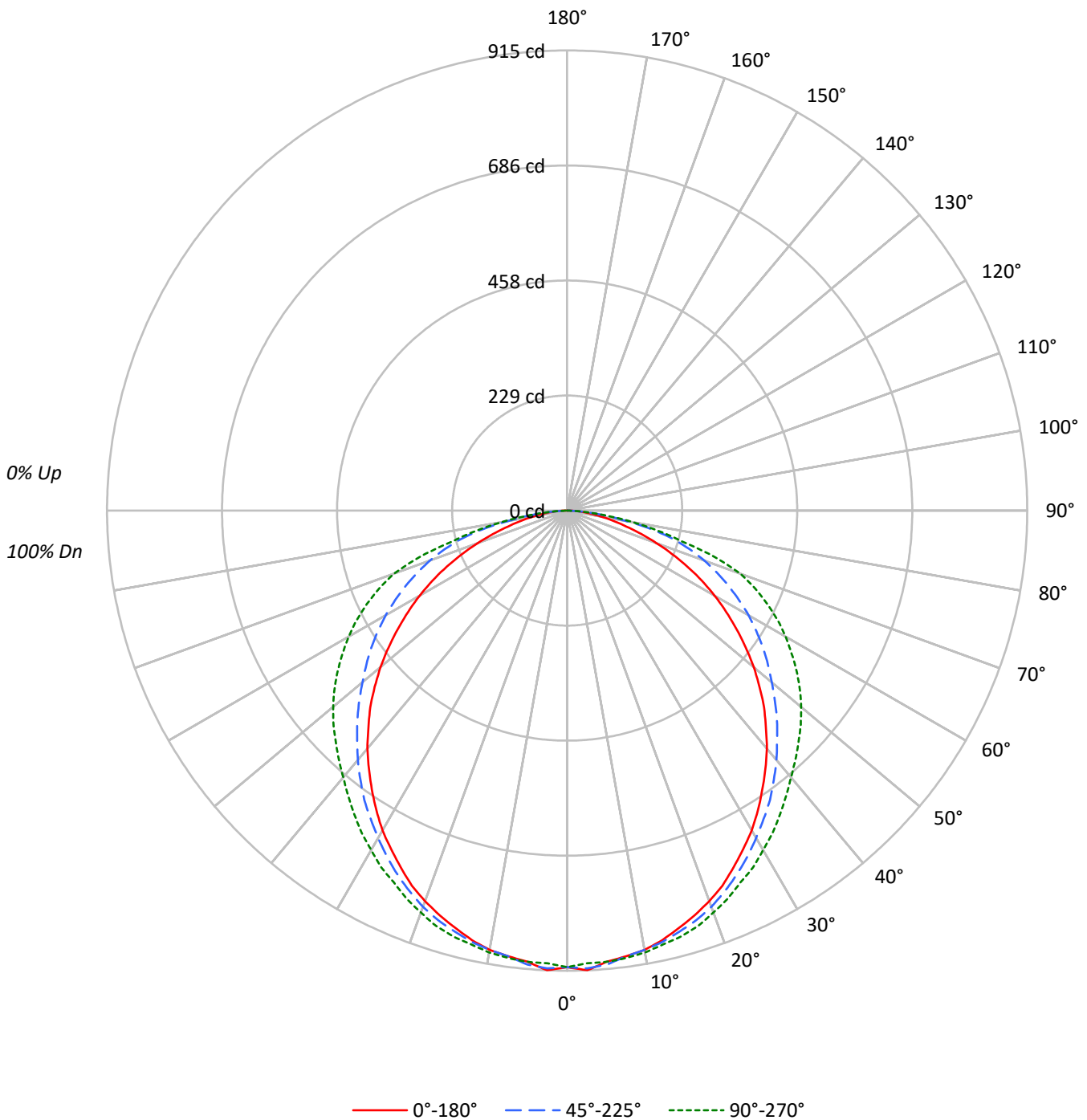
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																												
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69																												
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57																												
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49																												
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																												
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																												
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																												
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29																												
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																												
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2443	2443	2443
5°	2433	2447	2433
10°	2423	2423	2438
15°	2394	2413	2442
20°	2366	2401	2436
25°	2324	2371	2422
30°	2281	2335	2421
35°	2224	2309	2423
40°	2171	2274	2433
45°	2107	2246	2477
50°	2027	2223	2543
55°	1930	2231	2614
60°	1822	2242	2700
65°	1680	2255	2796
70°	1489	2281	2881
75°	1263	2274	2455
80°	1049	1829	2044
85°	911	1232	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.3
10°-20°	244.6	9.3
20°-30°	368.0	14.0
30°-40°	441.1	16.8
40°-50°	460.0	17.5
50°-60°	428.2	16.3
60°-70°	347.7	13.2
70°-80°	209.5	8.0
80°-90°	48.0	1.8
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°	698.4	26.5
0°-40°	1139.5	43.3
0°-60°	2027.7	77.0
0°-90°	2633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	901	901	906	908	901	86
15°	859	863	866	871	876	242
25°	783	788	798	809	816	361
35°	677	686	703	724	738	424
45°	554	564	590	628	651	426
55°	411	429	476	528	557	368
65°	264	292	354	410	439	261
75°	122	161	219	233	236	131
85°	30	36	40	38	38	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.8	907.8	907.8	907.8	907.8
2.5°	914.7	913.0	911.2	906.0	900.8
5°	900.8	900.8	906.0	907.8	900.8
7.5°	893.9	893.9	893.9	900.8	897.3
10°	886.9	886.9	886.9	892.1	892.1
12.5°	874.8	876.5	878.3	880.0	883.5
15°	859.2	862.6	866.1	871.3	876.5
17.5°	843.5	847.0	854.0	859.2	866.1
20°	826.2	829.7	838.3	843.5	850.5
22.5°	807.1	808.8	819.2	826.2	834.9
25°	782.8	788.0	798.4	808.8	815.8
27.5°	758.5	763.7	775.8	789.7	800.1
30°	734.2	739.4	751.5	768.9	779.3
32.5°	706.4	713.4	727.2	748.1	760.2
35°	676.9	685.6	702.9	723.8	737.7
37.5°	647.4	656.1	675.2	701.2	715.1
40°	617.9	626.6	647.4	675.2	692.5
42.5°	584.9	595.3	617.9	650.9	671.7
45°	553.7	564.1	590.1	628.3	650.9
47.5°	519.0	531.1	560.6	604.0	630.1
50°	484.3	498.1	531.1	579.7	607.5
52.5°	447.8	463.4	503.3	553.7	583.2
55°	411.4	428.7	475.6	527.6	557.2
57.5°	374.9	394.0	446.1	499.9	529.4
60°	338.5	359.3	416.6	472.1	501.6
62.5°	302.0	324.6	385.3	440.9	472.1
65°	263.8	291.6	354.1	409.6	439.1
67.5°	225.6	258.6	322.8	376.6	404.4
70°	189.2	225.6	289.9	340.2	366.2
72.5°	154.5	192.7	255.1	298.5	309.0
75°	121.5	161.4	218.7	232.6	236.1
77.5°	93.7	130.2	173.6	177.0	185.7
80°	67.7	98.9	118.0	128.4	131.9
82.5°	46.9	67.7	78.1	79.8	81.6
85°	29.5	36.4	39.9	38.2	38.2
87.5°	15.6	13.9	12.1	8.7	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)