

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: P260491

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260491
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-LD5-44-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3180.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

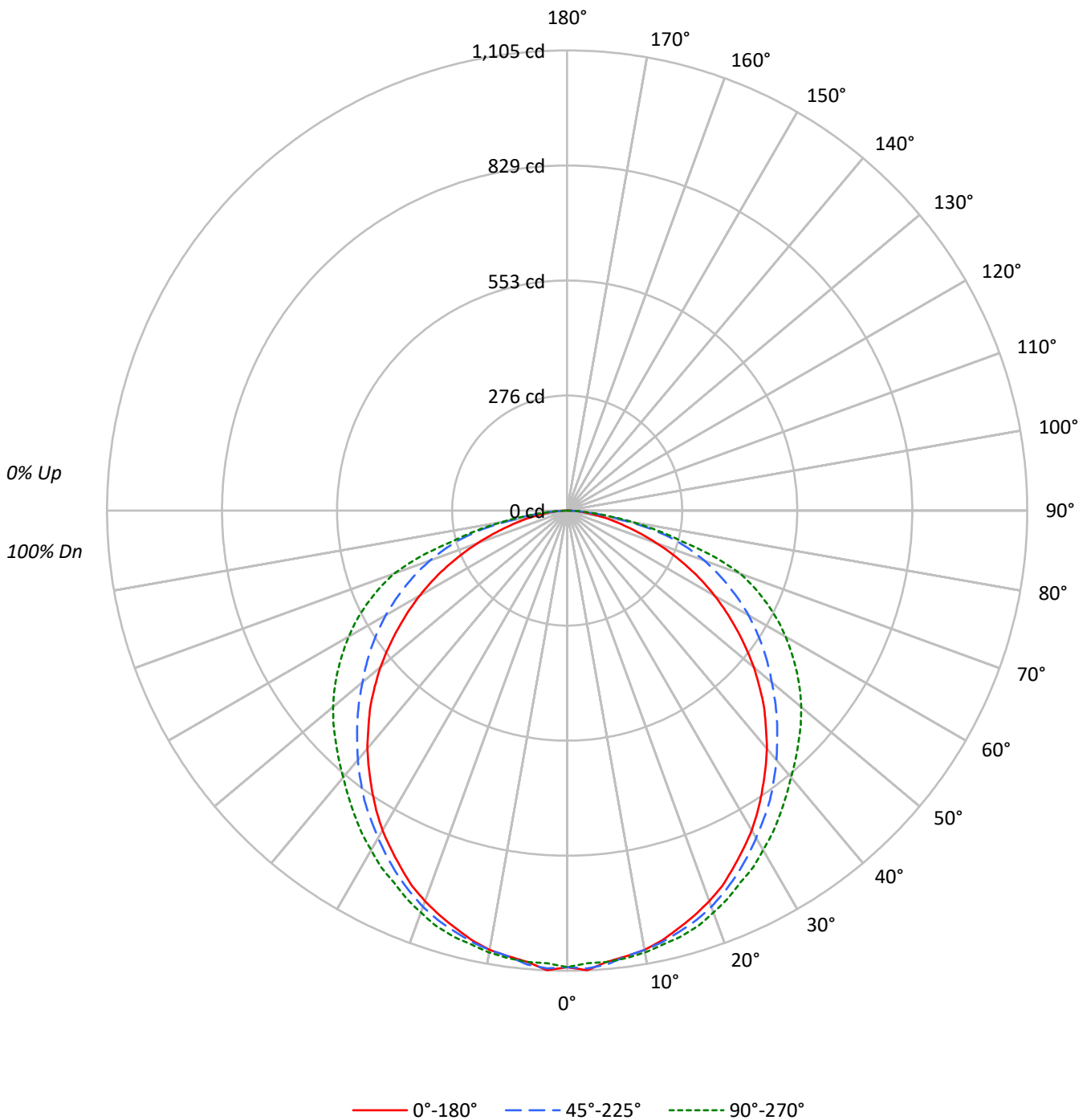
Input Watts (W): 34.782
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2950	2950	2950
5°	2939	2956	2939
10°	2927	2927	2944
15°	2891	2914	2949
20°	2857	2899	2942
25°	2807	2863	2925
30°	2755	2820	2925
35°	2686	2789	2927
40°	2622	2747	2938
45°	2545	2712	2992
50°	2449	2686	3072
55°	2331	2695	3157
60°	2200	2708	3260
65°	2029	2723	3377
70°	1798	2755	3480
75°	1525	2746	2964
80°	1268	2208	2469
85°	1099	1488	1423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.3
10°-20°	295.5	9.3
20°-30°	444.5	14.0
30°-40°	532.7	16.8
40°-50°	555.5	17.5
50°-60°	517.2	16.3
60°-70°	420.0	13.2
70°-80°	253.1	8.0
80°-90°	58.0	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°	843.6	26.5
0°-40°	1376.2	43.3
0°-60°	2449.0	77.0
0°-90°	3180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1088	1088	1094	1096	1088	103
15°	1038	1042	1046	1052	1059	293
25°	945	952	964	977	985	436
35°	818	828	849	874	891	512
45°	669	681	713	759	786	515
55°	497	518	574	637	673	444
65°	319	352	428	495	530	315
75°	147	195	264	281	285	159
85°	36	44	48	46	46	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	1104.7	1102.6	1100.5	1094.2	1088.0
5°	1088.0	1088.0	1094.2	1096.3	1088.0
7.5°	1079.6	1079.6	1079.6	1088.0	1083.8
10°	1071.2	1071.2	1071.2	1077.5	1077.5
12.5°	1056.5	1058.6	1060.7	1062.8	1067.0
15°	1037.6	1041.8	1046.0	1052.3	1058.6
17.5°	1018.8	1023.0	1031.4	1037.6	1046.0
20°	997.8	1002.0	1012.5	1018.8	1027.2
22.5°	974.8	976.9	989.4	997.8	1008.3
25°	945.4	951.7	964.3	976.9	985.2
27.5°	916.1	922.4	937.0	953.8	966.4
30°	886.7	893.0	907.7	928.6	941.2
32.5°	853.2	861.6	878.3	903.5	918.2
35°	817.5	828.0	849.0	874.1	890.9
37.5°	781.9	792.4	815.4	846.9	863.7
40°	746.3	756.8	781.9	815.4	836.4
42.5°	706.4	719.0	746.3	786.1	811.3
45°	668.7	681.3	712.7	758.8	786.1
47.5°	626.8	641.5	677.1	729.5	760.9
50°	584.9	601.6	641.5	700.2	733.7
52.5°	540.8	559.7	607.9	668.7	704.3
55°	496.8	517.8	574.4	637.3	672.9
57.5°	452.8	475.9	538.7	603.7	639.4
60°	408.8	433.9	503.1	570.2	605.8
62.5°	364.7	392.0	465.4	532.5	570.2
65°	318.6	352.2	427.6	494.7	530.4
67.5°	272.5	312.3	389.9	454.9	488.4
70°	228.5	272.5	350.1	410.9	442.3
72.5°	186.6	232.7	308.2	360.6	373.1
75°	146.7	195.0	264.1	280.9	285.1
77.5°	113.2	157.2	209.6	213.8	224.3
80°	81.8	119.5	142.5	155.1	159.3
82.5°	56.6	81.8	94.3	96.4	98.5
85°	35.6	44.0	48.2	46.1	46.1
87.5°	18.9	16.8	14.7	10.5	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)