

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: P260537

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260537
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-LD5-39-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2563.0 lumens
Efficiency: N/A
Efficacy: 84.0 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

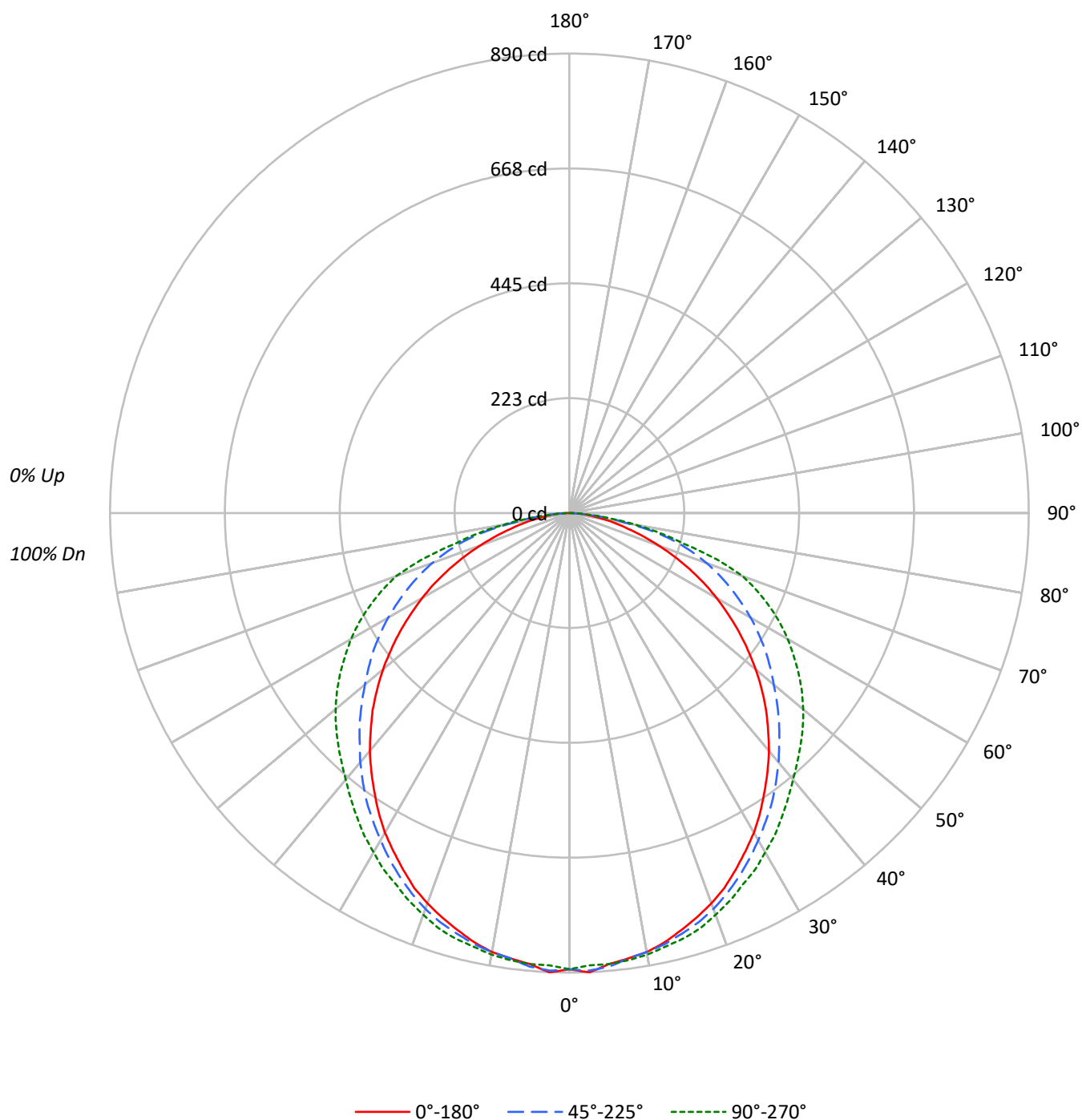
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	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°	2378	2378	2378
5°	2369	2382	2369
10°	2359	2359	2373
15°	2330	2349	2377
20°	2303	2337	2371
25°	2263	2308	2358
30°	2221	2273	2357
35°	2165	2248	2359
40°	2113	2214	2368
45°	2051	2186	2411
50°	1973	2164	2475
55°	1879	2172	2544
60°	1773	2182	2628
65°	1635	2195	2722
70°	1449	2220	2805
75°	1230	2214	2389
80°	1021	1781	1990
85°	886	1201	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.3
10°-20°	238.1	9.3
20°-30°	358.3	14.0
30°-40°	429.3	16.8
40°-50°	447.7	17.5
50°-60°	416.8	16.3
60°-70°	338.5	13.2
70°-80°	204.0	8.0
80°-90°	46.8	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°	679.9	26.5
0°-40°	1109.2	43.3
0°-60°	1973.8	77.0
0°-90°	2563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	877	877	882	884	877	83
15°	836	840	843	848	853	236
25°	762	767	777	787	794	351
35°	659	667	684	704	718	412
45°	539	549	574	612	634	415
55°	400	417	463	514	542	358
65°	257	284	345	399	428	254
75°	118	157	213	226	230	128
85°	29	36	39	37	37	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.6	883.6	883.6	883.6	883.6
2.5°	890.4	888.7	887.0	881.9	876.9
5°	876.9	876.9	881.9	883.6	876.9
7.5°	870.1	870.1	870.1	876.9	873.5
10°	863.4	863.4	863.4	868.4	868.4
12.5°	851.5	853.2	854.9	856.6	860.0
15°	836.3	839.7	843.1	848.1	853.2
17.5°	821.1	824.5	831.3	836.3	843.1
20°	804.2	807.6	816.0	821.1	827.9
22.5°	785.6	787.3	797.5	804.2	812.7
25°	762.0	767.0	777.2	787.3	794.1
27.5°	738.3	743.4	755.2	768.7	778.9
30°	714.7	719.7	731.6	748.5	758.6
32.5°	687.6	694.4	707.9	728.2	740.0
35°	658.9	667.4	684.3	704.5	718.1
37.5°	630.2	638.6	657.2	682.6	696.1
40°	601.5	609.9	630.2	657.2	674.1
42.5°	569.4	579.5	601.5	633.6	653.8
45°	539.0	549.1	574.4	611.6	633.6
47.5°	505.2	517.0	545.7	588.0	613.3
50°	471.4	484.9	517.0	564.3	591.3
52.5°	435.9	451.1	490.0	539.0	567.7
55°	400.4	417.3	462.9	513.6	542.3
57.5°	364.9	383.5	434.2	486.6	515.3
60°	329.5	349.7	405.5	459.6	488.3
62.5°	294.0	315.9	375.1	429.1	459.6
65°	256.8	283.8	344.7	398.7	427.5
67.5°	219.6	251.7	314.3	366.6	393.7
70°	184.2	219.6	282.2	331.1	356.5
72.5°	150.4	187.5	248.4	290.6	300.7
75°	118.3	157.1	212.9	226.4	229.8
77.5°	91.2	126.7	169.0	172.3	180.8
80°	65.9	96.3	114.9	125.0	128.4
82.5°	45.6	65.9	76.0	77.7	79.4
85°	28.7	35.5	38.9	37.2	37.2
87.5°	15.2	13.5	11.8	8.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)