

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: P260434

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260434
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-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2258.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

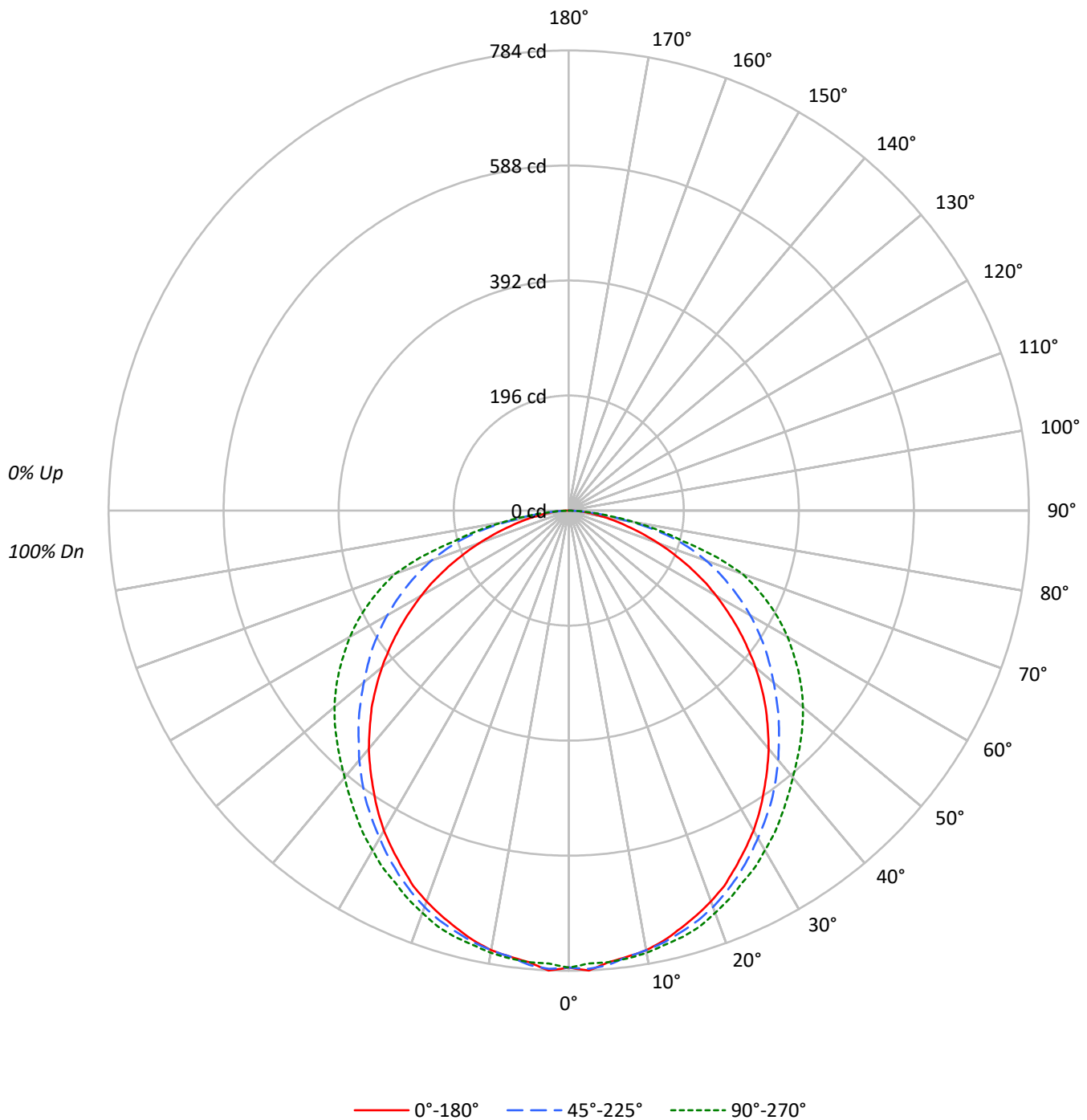
Input Watts (W): 30.825036
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2095	2095	2095
5°	2087	2099	2087
10°	2078	2078	2091
15°	2053	2069	2094
20°	2029	2059	2089
25°	1993	2033	2077
30°	1956	2003	2077
35°	1907	1980	2078
40°	1861	1950	2086
45°	1807	1926	2124
50°	1739	1907	2181
55°	1655	1913	2242
60°	1562	1922	2315
65°	1440	1933	2398
70°	1276	1956	2471
75°	1083	1949	2104
80°	900	1568	1753
85°	781	1056	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.3
10°-20°	209.8	9.3
20°-30°	315.6	14.0
30°-40°	378.2	16.8
40°-50°	394.5	17.5
50°-60°	367.2	16.3
60°-70°	298.2	13.2
70°-80°	179.7	8.0
80°-90°	41.2	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°	599.0	26.5
0°-40°	977.2	43.3
0°-60°	1738.9	77.0
0°-90°	2258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	772	772	777	778	772	73
15°	737	740	743	747	752	208
25°	671	676	685	694	700	309
35°	580	588	603	621	633	363
45°	475	484	506	539	558	366
55°	353	368	408	452	478	315
65°	226	250	304	351	377	224
75°	104	138	188	200	202	113
85°	25	31	34	33	33	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.5	778.5	778.5	778.5	778.5
2.5°	784.4	782.9	781.5	777.0	772.5
5°	772.5	772.5	777.0	778.5	772.5
7.5°	766.6	766.6	766.6	772.5	769.5
10°	760.6	760.6	760.6	765.1	765.1
12.5°	750.2	751.7	753.2	754.7	757.6
15°	736.8	739.8	742.8	747.2	751.7
17.5°	723.4	726.4	732.3	736.8	742.8
20°	708.5	711.5	718.9	723.4	729.4
22.5°	692.1	693.6	702.6	708.5	716.0
25°	671.3	675.8	684.7	693.6	699.6
27.5°	650.5	654.9	665.3	677.3	686.2
30°	629.6	634.1	644.5	659.4	668.3
32.5°	605.8	611.8	623.7	641.5	652.0
35°	580.5	587.9	602.8	620.7	632.6
37.5°	555.2	562.6	579.0	601.3	613.3
40°	529.9	537.3	555.2	579.0	593.9
42.5°	501.6	510.5	529.9	558.2	576.0
45°	474.8	483.8	506.1	538.8	558.2
47.5°	445.1	455.5	480.8	518.0	540.3
50°	415.3	427.2	455.5	497.2	521.0
52.5°	384.0	397.4	431.7	474.8	500.1
55°	352.8	367.7	407.8	452.5	477.8
57.5°	321.5	337.9	382.5	428.7	454.0
60°	290.3	308.1	357.2	404.9	430.2
62.5°	259.0	278.3	330.4	378.1	404.9
65°	226.2	250.1	303.6	351.3	376.6
67.5°	193.5	221.8	276.9	323.0	346.8
70°	162.2	193.5	248.6	291.7	314.1
72.5°	132.5	165.2	218.8	256.0	264.9
75°	104.2	138.4	187.5	199.5	202.4
77.5°	80.4	111.6	148.8	151.8	159.3
80°	58.1	84.8	101.2	110.1	113.1
82.5°	40.2	58.1	67.0	68.5	70.0
85°	25.3	31.3	34.2	32.7	32.7
87.5°	13.4	11.9	10.4	7.4	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)