

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: P260435

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260435
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2467.0 lumens
Efficiency: N/A
Efficacy: 80.3 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

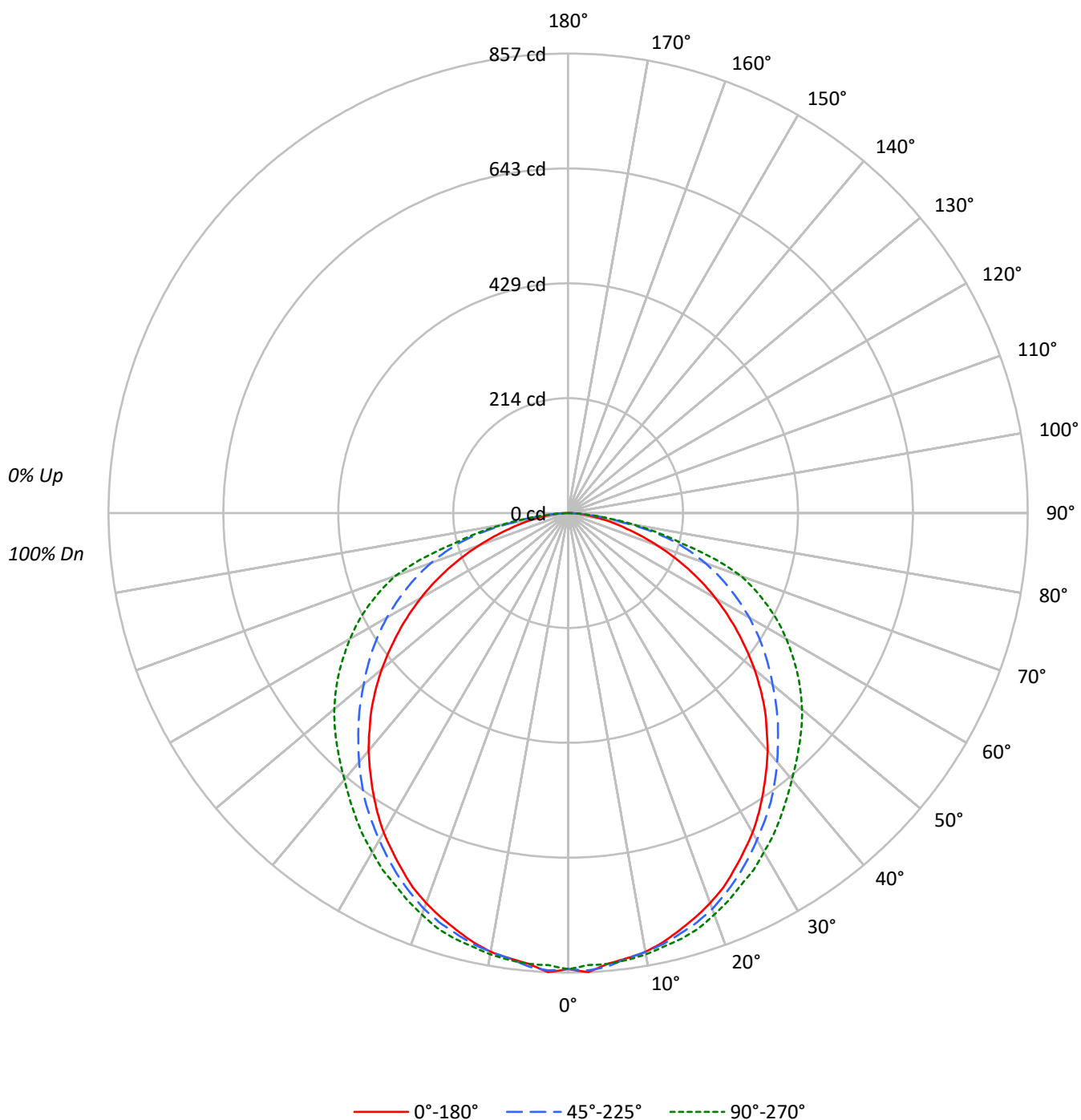
Input Watts (W): 30.704508
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2289	2289	2289
5°	2280	2293	2280
10°	2271	2271	2284
15°	2243	2261	2288
20°	2217	2249	2282
25°	2178	2221	2269
30°	2137	2188	2269
35°	2083	2164	2271
40°	2034	2131	2279
45°	1974	2104	2321
50°	1899	2083	2383
55°	1808	2091	2449
60°	1707	2101	2530
65°	1574	2113	2620
70°	1395	2137	2699
75°	1183	2130	2300
80°	982	1714	1915
85°	852	1155	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.3
10°-20°	229.2	9.3
20°-30°	344.8	14.0
30°-40°	413.2	16.8
40°-50°	430.9	17.5
50°-60°	401.2	16.3
60°-70°	325.8	13.2
70°-80°	196.3	8.0
80°-90°	45.0	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°	654.4	26.5
0°-40°	1067.7	43.3
0°-60°	1899.8	77.0
0°-90°	2467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	844	844	849	850	844	80
15°	805	808	812	816	821	227
25°	733	738	748	758	764	338
35°	634	642	659	678	691	397
45°	519	528	553	589	610	399
55°	385	402	446	494	522	345
65°	247	273	332	384	411	244
75°	114	151	205	218	221	123
85°	28	34	37	36	36	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.5	850.5	850.5	850.5	850.5
2.5°	857.0	855.4	853.8	848.9	844.0
5°	844.0	844.0	848.9	850.5	844.0
7.5°	837.5	837.5	837.5	844.0	840.8
10°	831.0	831.0	831.0	835.9	835.9
12.5°	819.6	821.3	822.9	824.5	827.8
15°	805.0	808.2	811.5	816.4	821.3
17.5°	790.4	793.6	800.1	805.0	811.5
20°	774.1	777.3	785.5	790.4	796.9
22.5°	756.2	757.8	767.6	774.1	782.2
25°	733.4	738.3	748.1	757.8	764.3
27.5°	710.7	715.6	726.9	739.9	749.7
30°	687.9	692.8	704.2	720.4	730.2
32.5°	661.9	668.4	681.4	700.9	712.3
35°	634.2	642.4	658.6	678.1	691.2
37.5°	606.6	614.7	632.6	657.0	670.0
40°	578.9	587.1	606.6	632.6	648.9
42.5°	548.0	557.8	578.9	609.8	629.4
45°	518.8	528.5	552.9	588.7	609.8
47.5°	486.2	497.6	525.3	565.9	590.3
50°	453.7	466.7	497.6	543.2	569.2
52.5°	419.6	434.2	471.6	518.8	546.4
55°	385.4	401.7	445.6	494.4	522.0
57.5°	351.3	369.2	417.9	468.4	496.0
60°	317.1	336.6	390.3	442.3	470.0
62.5°	283.0	304.1	361.0	413.1	442.3
65°	247.2	273.2	331.8	383.8	411.4
67.5°	211.4	242.3	302.5	352.9	378.9
70°	177.3	211.4	271.6	318.7	343.1
72.5°	144.7	180.5	239.1	279.7	289.5
75°	113.8	151.2	204.9	217.9	221.2
77.5°	87.8	122.0	162.6	165.9	174.0
80°	63.4	92.7	110.6	120.3	123.6
82.5°	43.9	63.4	73.2	74.8	76.4
85°	27.6	34.2	37.4	35.8	35.8
87.5°	14.6	13.0	11.4	8.1	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)