

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: P259480

Luminaire Tested: **22CZ-LD5-39-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4198.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

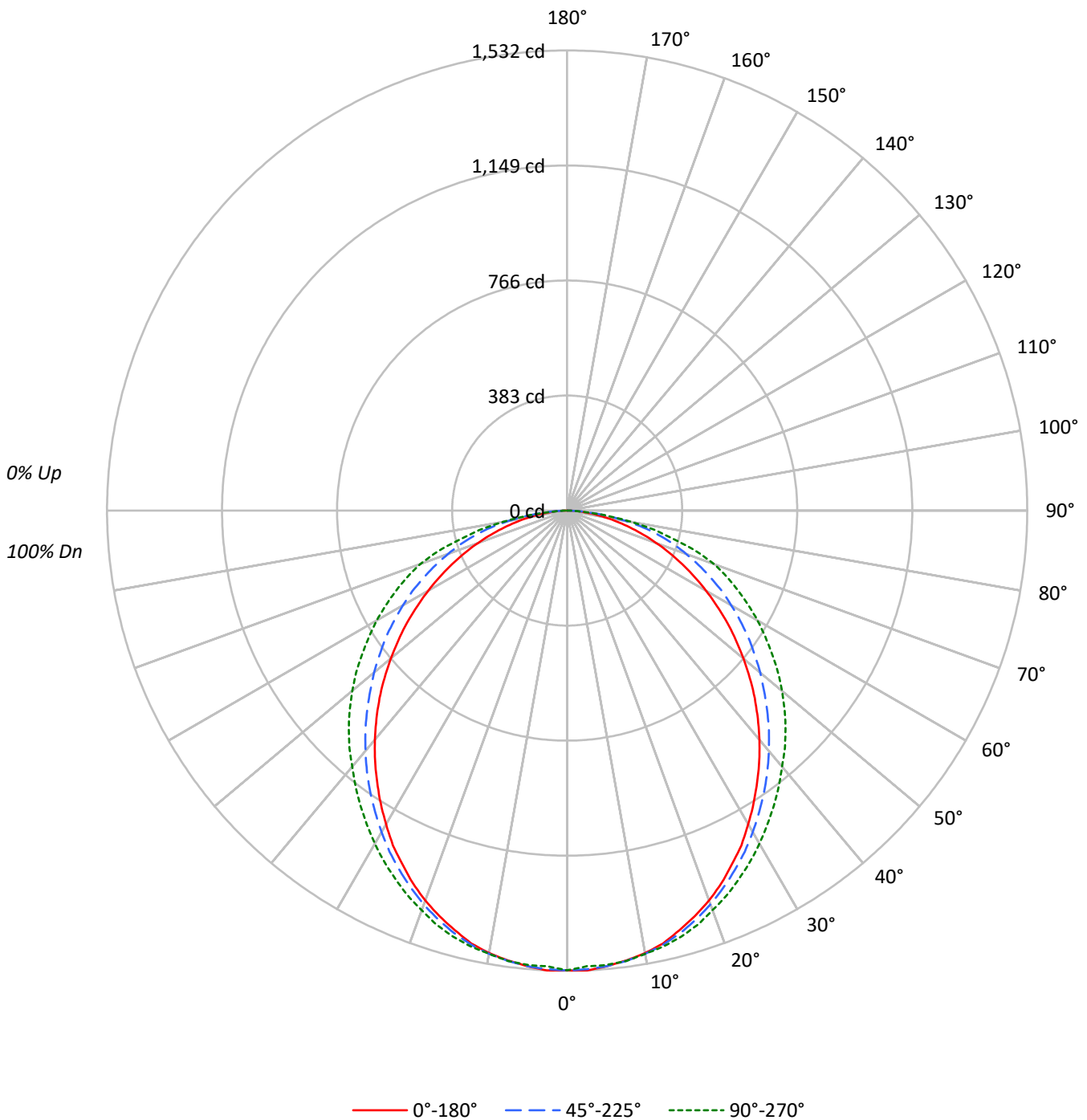
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4118	4118	4118
5°	4112	4112	4101
10°	4088	4094	4094
15°	4028	4056	4089
20°	3955	3996	4054
25°	3855	3921	4017
30°	3747	3841	3979
35°	3623	3756	3941
40°	3499	3669	3910
45°	3361	3583	3913
50°	3208	3512	3908
55°	3056	3453	3907
60°	2876	3397	3939
65°	2696	3351	3993
70°	2491	3316	4093
75°	2244	3292	3795
80°	1968	3062	3312
85°	1618	2303	2053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	3.4
10°-20°	410.5	9.8
20°-30°	609.8	14.5
30°-40°	717.8	17.1
40°-50°	731.7	17.4
50°-60°	660.0	15.7
60°-70°	519.8	12.4
70°-80°	320.7	7.6
80°-90°	83.2	2.0
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°	1164.8	27.7
0°-40°	1882.6	44.8
0°-60°	3274.3	78.0
0°-90°	4198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1522	1524	1522	1520	1518	144
15°	1446	1452	1456	1464	1468	408
25°	1298	1307	1321	1343	1353	598
35°	1103	1115	1143	1180	1200	690
45°	883	897	942	998	1028	681
55°	651	674	736	802	833	581
65°	423	454	526	593	627	419
75°	216	252	317	353	365	230
85°	52	66	75	71	66	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.4	1530.4	1530.4	1530.4	1530.4
2.5°	1532.4	1532.4	1528.4	1524.4	1518.3
5°	1522.4	1524.4	1522.4	1520.3	1518.3
7.5°	1510.3	1512.3	1512.3	1512.3	1512.3
10°	1496.1	1498.2	1498.2	1498.2	1498.2
12.5°	1476.0	1478.0	1480.0	1482.0	1486.1
15°	1445.7	1451.8	1455.8	1463.9	1467.9
17.5°	1415.5	1421.5	1427.6	1437.7	1445.7
20°	1381.2	1385.2	1395.3	1407.4	1415.5
22.5°	1342.9	1348.9	1359.0	1375.2	1387.3
25°	1298.5	1306.6	1320.7	1342.9	1353.0
27.5°	1256.2	1262.2	1280.4	1304.6	1318.7
30°	1205.8	1213.9	1236.0	1266.3	1280.4
32.5°	1155.4	1165.5	1189.7	1223.9	1240.1
35°	1103.0	1115.0	1143.3	1179.6	1199.7
37.5°	1050.5	1062.6	1094.9	1135.2	1157.4
40°	996.1	1008.2	1044.5	1088.8	1113.0
42.5°	939.6	953.7	994.1	1044.5	1072.7
45°	883.2	897.3	941.6	998.1	1028.3
47.5°	824.7	840.8	889.2	951.7	982.0
50°	766.2	784.4	838.8	903.3	933.6
52.5°	707.7	727.9	786.4	852.9	885.2
55°	651.3	673.5	736.0	802.5	832.8
57.5°	590.8	617.0	683.5	748.1	782.3
60°	534.3	562.6	631.1	695.6	731.9
62.5°	477.9	508.1	580.7	645.2	679.5
65°	423.4	453.7	526.3	592.8	627.1
67.5°	369.0	403.3	473.8	540.4	574.7
70°	316.6	352.9	421.4	485.9	520.2
72.5°	266.2	302.5	371.0	431.5	451.7
75°	215.8	252.0	316.6	352.9	365.0
77.5°	169.4	203.7	260.1	282.3	298.4
80°	127.0	157.3	197.6	211.7	213.7
82.5°	86.7	112.9	137.1	139.1	137.1
85°	52.4	66.5	74.6	70.6	66.5
87.5°	24.2	26.2	24.2	16.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)