

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: P260254

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-SQP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1425.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

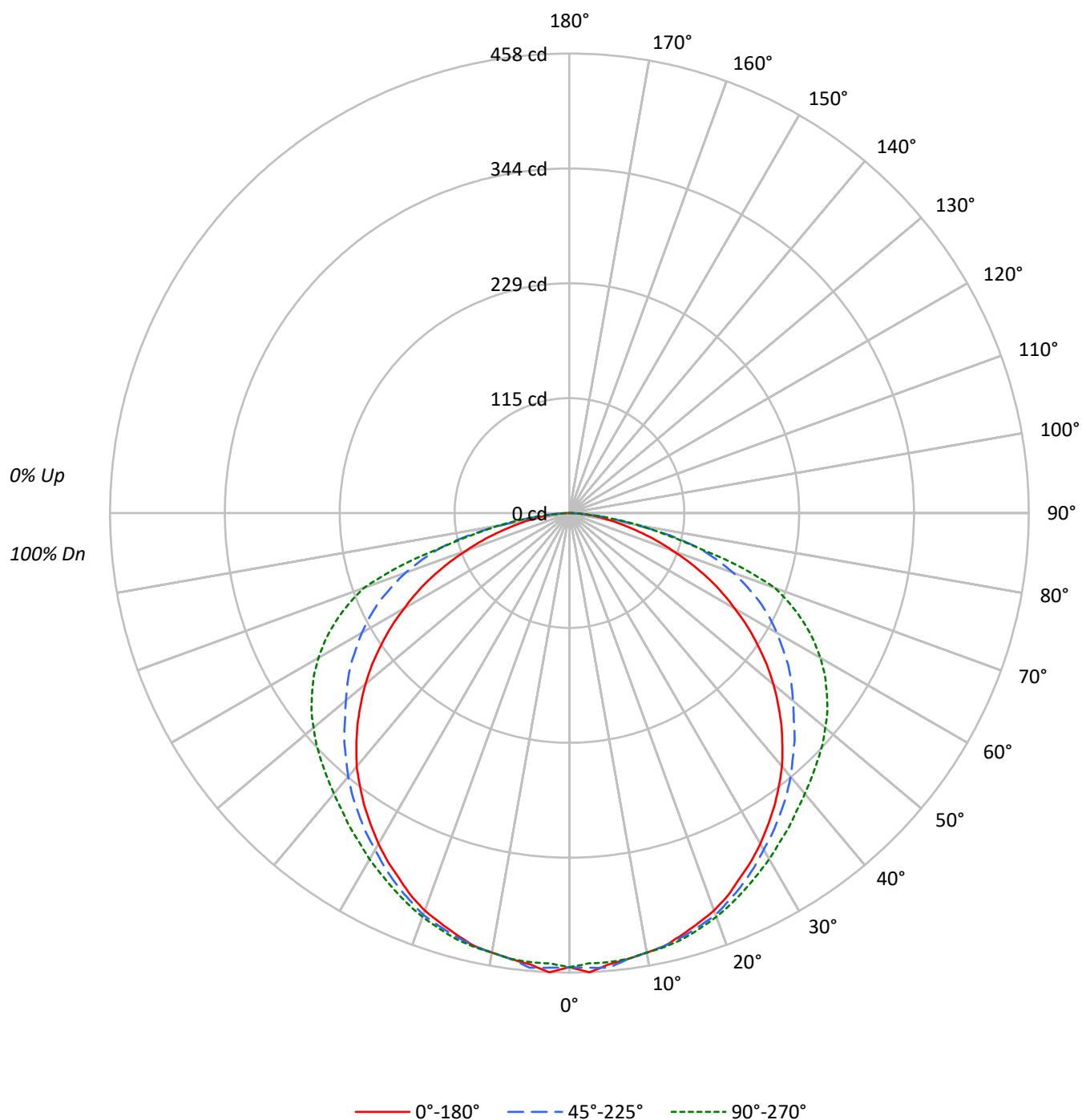
Input Watts (W): 18.315234
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41			
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1218	1218	1218
5°	1220	1229	1214
10°	1216	1216	1216
15°	1212	1218	1224
20°	1207	1220	1227
25°	1193	1213	1229
30°	1183	1203	1238
35°	1170	1203	1254
40°	1159	1205	1283
45°	1137	1209	1331
50°	1112	1218	1394
55°	1075	1251	1469
60°	1024	1286	1554
65°	965	1332	1642
70°	862	1367	1715
75°	748	1369	1358
80°	634	1012	1097
85°	546	682	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	3.0
10°-20°	123.4	8.7
20°-30°	188.1	13.2
30°-40°	230.1	16.1
40°-50°	247.6	17.4
50°-60°	239.8	16.8
60°-70°	203.2	14.3
70°-80°	122.8	8.6
80°-90°	27.0	1.9
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°	354.5	24.9
0°-40°	584.6	41.0
0°-60°	1072.0	75.2
0°-90°	1425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	453	453	453	453	453	
5°	452	452	455	453	449	43
15°	435	436	437	438	439	123
25°	402	404	408	412	414	185
35°	356	359	366	376	382	223
45°	299	304	318	338	350	230
55°	229	239	267	298	313	205
65°	152	168	209	242	258	149
75°	72	97	132	134	131	77
85°	18	21	22	21	20	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	452.6	452.6	452.6	452.6	452.6
2.5°	458.2	457.0	453.7	451.5	449.3
5°	451.5	451.5	454.8	452.6	449.3
7.5°	448.2	448.2	448.2	453.7	448.2
10°	444.9	446.0	444.9	449.3	444.9
12.5°	441.6	441.6	441.6	442.7	442.7
15°	434.9	436.0	437.1	438.2	439.3
17.5°	428.3	429.4	431.6	432.7	433.8
20°	421.6	422.7	426.1	426.1	428.3
22.5°	412.8	412.8	417.2	418.3	421.6
25°	401.7	403.9	408.4	411.7	413.9
27.5°	391.8	394.0	398.4	402.8	406.1
30°	380.7	382.9	387.3	394.0	398.4
32.5°	368.5	370.7	377.4	385.1	389.5
35°	356.3	358.6	366.3	376.3	381.8
37.5°	343.1	346.4	355.2	366.3	372.9
40°	329.8	333.1	343.1	355.2	365.2
42.5°	314.3	318.7	329.8	346.4	357.4
45°	298.8	304.3	317.6	337.5	349.7
47.5°	282.2	287.7	303.2	328.7	342.0
50°	265.6	272.2	291.0	318.7	333.1
52.5°	247.9	254.5	278.9	308.8	324.2
55°	229.1	239.0	266.7	297.7	313.2
57.5°	210.3	221.3	252.3	285.5	302.1
60°	190.3	203.6	239.0	272.2	288.8
62.5°	171.5	185.9	224.6	257.8	274.4
65°	151.6	168.2	209.2	242.4	257.8
67.5°	130.6	151.6	191.4	223.5	239.0
70°	109.6	133.9	173.7	203.6	218.0
72.5°	90.7	116.2	153.8	179.3	179.3
75°	71.9	97.4	131.7	133.9	130.6
77.5°	55.3	79.7	102.9	94.1	96.3
80°	40.9	60.9	65.3	68.6	70.8
82.5°	27.7	40.9	42.1	44.3	44.3
85°	17.7	21.0	22.1	21.0	19.9
87.5°	7.7	8.9	6.6	4.4	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)