

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: P260219

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260219
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-LD5-20-SQP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1433.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

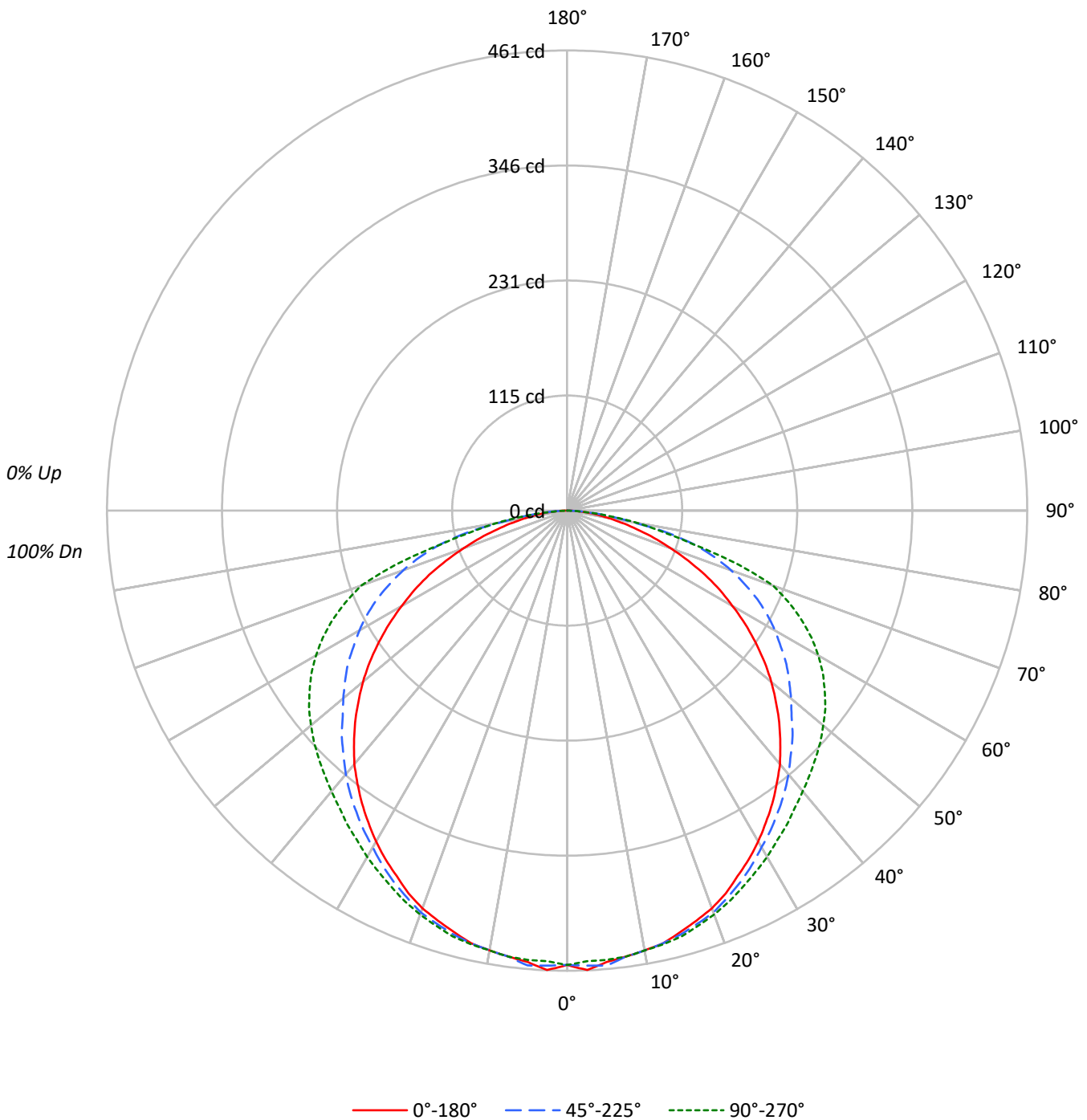
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1225	1225	1225
5°	1226	1236	1220
10°	1223	1223	1223
15°	1219	1225	1231
20°	1214	1227	1233
25°	1200	1219	1236
30°	1189	1210	1245
35°	1177	1210	1261
40°	1165	1212	1290
45°	1144	1216	1338
50°	1118	1225	1402
55°	1081	1258	1477
60°	1030	1294	1563
65°	971	1339	1651
70°	867	1375	1725
75°	752	1377	1365
80°	638	1018	1103
85°	550	689	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	3.0
10°-20°	124.1	8.7
20°-30°	189.1	13.2
30°-40°	231.4	16.1
40°-50°	249.0	17.4
50°-60°	241.2	16.8
60°-70°	204.3	14.3
70°-80°	123.5	8.6
80°-90°	27.1	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°	356.5	24.9
0°-40°	587.9	41.0
0°-60°	1078.1	75.2
0°-90°	1433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	454	454	457	455	452	43
15°	437	438	440	441	442	124
25°	404	406	411	414	416	186
35°	358	361	368	378	384	224
45°	300	306	319	339	352	232
55°	230	240	268	299	315	206
65°	152	169	210	244	259	150
75°	72	98	132	135	131	78
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°	455.2	455.2	455.2	455.2	455.2
2.5°	460.7	459.6	456.3	454.0	451.8
5°	454.0	454.0	457.4	455.2	451.8
7.5°	450.7	450.7	450.7	456.3	450.7
10°	447.4	448.5	447.4	451.8	447.4
12.5°	444.0	444.0	444.0	445.1	445.1
15°	437.4	438.5	439.6	440.7	441.8
17.5°	430.7	431.8	434.0	435.1	436.2
20°	424.0	425.1	428.5	428.5	430.7
22.5°	415.1	415.1	419.5	420.7	424.0
25°	404.0	406.2	410.6	414.0	416.2
27.5°	394.0	396.2	400.6	405.1	408.4
30°	382.8	385.0	389.5	396.2	400.6
32.5°	370.6	372.8	379.5	387.3	391.7
35°	358.3	360.6	368.4	378.4	383.9
37.5°	345.0	348.3	357.2	368.4	375.0
40°	331.6	335.0	345.0	357.2	367.2
42.5°	316.1	320.5	331.6	348.3	359.5
45°	300.5	306.0	319.4	339.4	351.7
47.5°	283.8	289.3	304.9	330.5	343.9
50°	267.1	273.8	292.7	320.5	335.0
52.5°	249.3	256.0	280.4	310.5	326.1
55°	230.4	240.4	268.2	299.4	314.9
57.5°	211.4	222.6	253.7	287.1	303.8
60°	191.4	204.8	240.4	273.8	290.5
62.5°	172.5	187.0	225.9	259.3	276.0
65°	152.5	169.2	210.3	243.7	259.3
67.5°	131.3	152.5	192.5	224.8	240.4
70°	110.2	134.7	174.7	204.8	219.2
72.5°	91.3	116.9	154.7	180.3	180.3
75°	72.3	97.9	132.4	134.7	131.3
77.5°	55.6	80.1	103.5	94.6	96.8
80°	41.2	61.2	65.7	69.0	71.2
82.5°	27.8	41.2	42.3	44.5	44.5
85°	17.8	21.1	22.3	21.1	20.0
87.5°	7.8	8.9	6.7	4.5	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)