

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: P260280

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260280
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-L82765-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: 1373.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

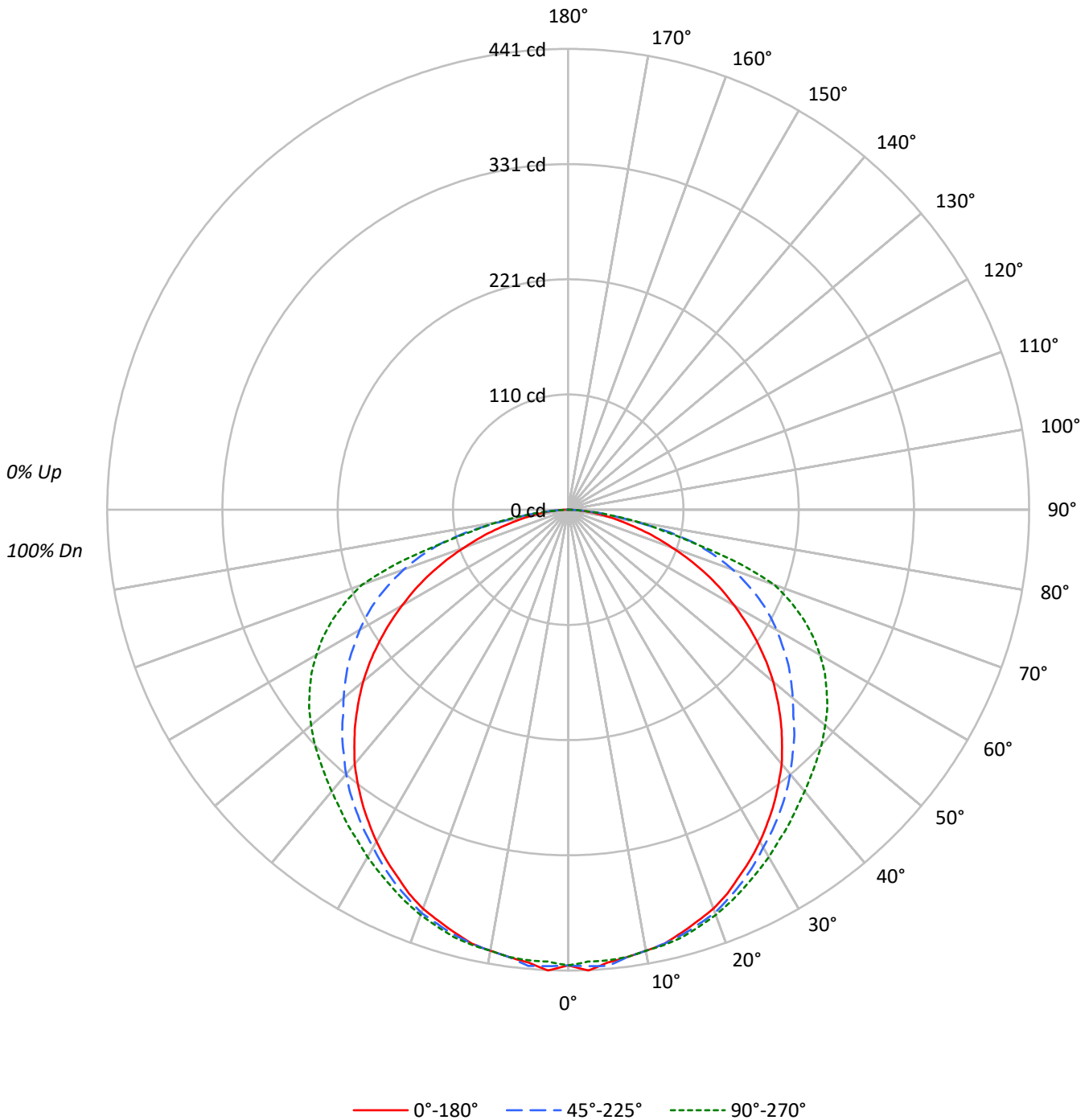
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1174	1174	1174
5°	1175	1184	1169
10°	1171	1171	1171
15°	1167	1173	1179
20°	1163	1176	1182
25°	1149	1168	1184
30°	1140	1160	1193
35°	1128	1159	1209
40°	1116	1161	1236
45°	1096	1165	1282
50°	1071	1174	1343
55°	1035	1206	1416
60°	987	1239	1498
65°	930	1283	1582
70°	831	1317	1653
75°	721	1319	1308
80°	612	975	1057
85°	528	658	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	3.0
10°-20°	118.9	8.7
20°-30°	181.2	13.2
30°-40°	221.7	16.1
40°-50°	238.6	17.4
50°-60°	231.1	16.8
60°-70°	195.8	14.3
70°-80°	118.3	8.6
80°-90°	26.0	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°	341.5	24.9
0°-40°	563.2	41.0
0°-60°	1032.9	75.2
0°-90°	1373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	435	435	438	436	433	41
15°	419	420	421	422	423	118
25°	387	389	394	397	399	179
35°	343	346	353	362	368	215
45°	288	293	306	325	337	222
55°	221	230	257	287	302	197
65°	146	162	202	234	248	144
75°	69	94	127	129	126	74
85°	17	20	21	20	19	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	436.1	436.1	436.1	436.1	436.1
2.5°	441.4	440.4	437.2	435.0	432.9
5°	435.0	435.0	438.2	436.1	432.9
7.5°	431.8	431.8	431.8	437.2	431.8
10°	428.6	429.7	428.6	432.9	428.6
12.5°	425.4	425.4	425.4	426.5	426.5
15°	419.0	420.1	421.2	422.2	423.3
17.5°	412.6	413.7	415.8	416.9	418.0
20°	406.2	407.3	410.5	410.5	412.6
22.5°	397.7	397.7	402.0	403.0	406.2
25°	387.1	389.2	393.5	396.6	398.8
27.5°	377.5	379.6	383.9	388.1	391.3
30°	366.8	368.9	373.2	379.6	383.9
32.5°	355.1	357.2	363.6	371.1	375.3
35°	343.3	345.5	352.9	362.5	367.9
37.5°	330.5	333.7	342.3	352.9	359.3
40°	317.7	320.9	330.5	342.3	351.9
42.5°	302.8	307.1	317.7	333.7	344.4
45°	287.9	293.2	306.0	325.2	336.9
47.5°	271.9	277.2	292.2	316.7	329.5
50°	255.9	262.3	280.4	307.1	320.9
52.5°	238.8	245.2	268.7	297.5	312.4
55°	220.7	230.3	257.0	286.8	301.8
57.5°	202.6	213.3	243.1	275.1	291.1
60°	183.4	196.2	230.3	262.3	278.3
62.5°	165.3	179.1	216.5	248.4	264.4
65°	146.1	162.1	201.5	233.5	248.4
67.5°	125.8	146.1	184.5	215.4	230.3
70°	105.6	129.0	167.4	196.2	210.1
72.5°	87.4	112.0	148.2	172.7	172.7
75°	69.3	93.8	126.9	129.0	125.8
77.5°	53.3	76.8	99.2	90.6	92.8
80°	39.5	58.6	62.9	66.1	68.2
82.5°	26.7	39.5	40.5	42.7	42.7
85°	17.1	20.3	21.3	20.3	19.2
87.5°	7.5	8.5	6.4	4.3	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)