

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: P260218

Luminaire Tested: **22CZ-LD5-20-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260218
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1420.0 lumens
Efficiency: N/A
Efficacy: 89.3 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

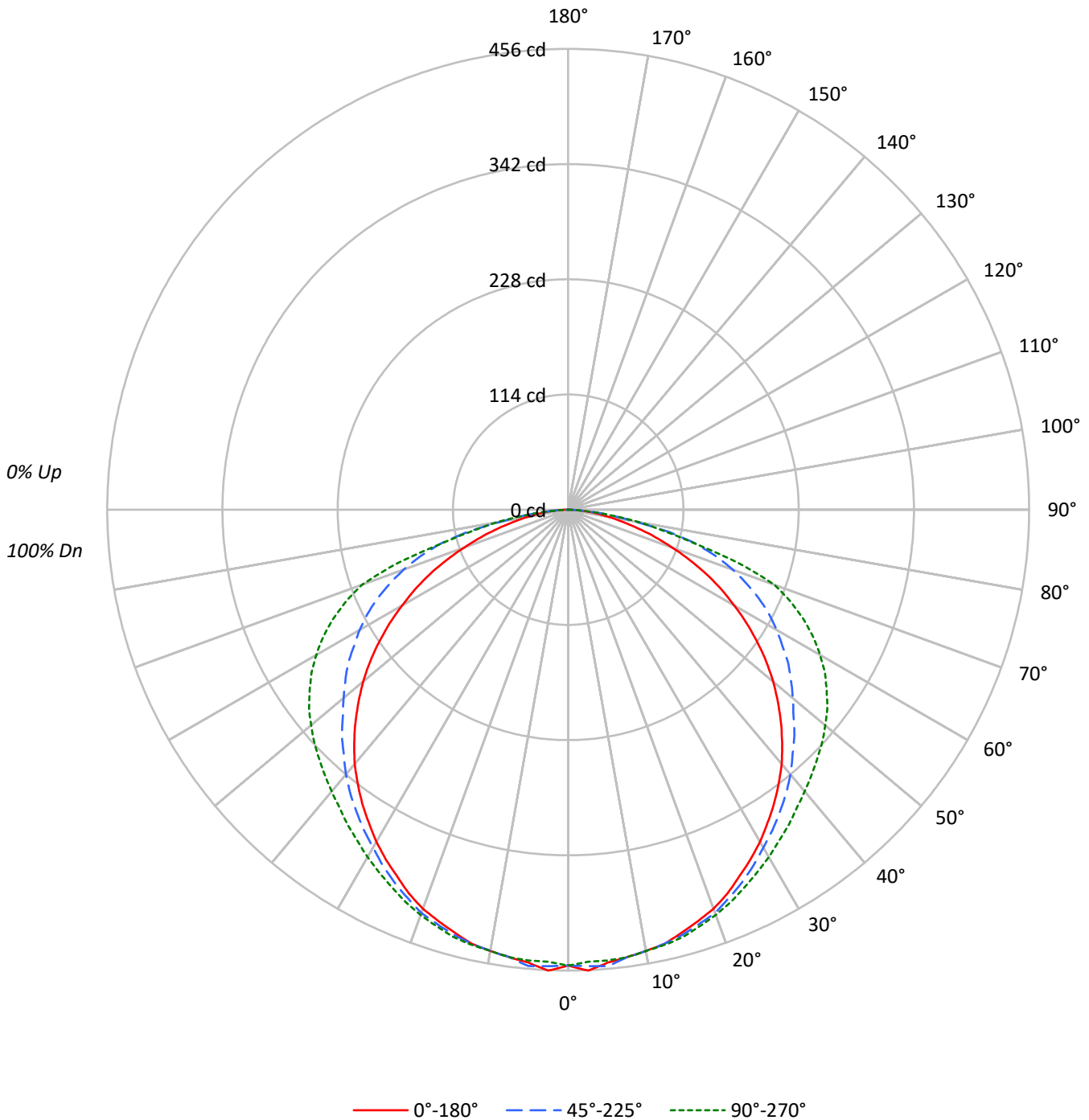
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1214	1214	1214
5°	1215	1224	1209
10°	1211	1211	1211
15°	1207	1214	1220
20°	1203	1216	1222
25°	1189	1208	1224
30°	1179	1199	1234
35°	1167	1199	1250
40°	1154	1201	1278
45°	1133	1204	1326
50°	1108	1214	1389
55°	1071	1247	1464
60°	1021	1282	1549
65°	962	1327	1636
70°	859	1362	1709
75°	745	1364	1353
80°	632	1009	1094
85°	543	682	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	3.0
10°-20°	123.0	8.7
20°-30°	187.4	13.2
30°-40°	229.3	16.1
40°-50°	246.7	17.4
50°-60°	239.0	16.8
60°-70°	202.5	14.3
70°-80°	122.4	8.6
80°-90°	26.9	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°	353.2	24.9
0°-40°	582.5	41.0
0°-60°	1068.3	75.2
0°-90°	1420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	451	451	451	451	451	
5°	450	450	453	451	448	43
15°	433	434	436	437	438	122
25°	400	402	407	410	412	185
35°	355	357	365	375	380	222
45°	298	303	316	336	348	229
55°	228	238	266	297	312	204
65°	151	168	208	242	257	149
75°	72	97	131	133	130	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°	451.0	451.0	451.0	451.0	451.0
2.5°	456.5	455.4	452.1	449.9	447.7
5°	449.9	449.9	453.2	451.0	447.7
7.5°	446.6	446.6	446.6	452.1	446.6
10°	443.3	444.4	443.3	447.7	443.3
12.5°	440.0	440.0	440.0	441.1	441.1
15°	433.4	434.5	435.6	436.7	437.8
17.5°	426.8	427.9	430.1	431.2	432.3
20°	420.2	421.3	424.6	424.6	426.8
22.5°	411.3	411.3	415.7	416.8	420.2
25°	400.3	402.5	406.9	410.2	412.4
27.5°	390.4	392.6	397.0	401.4	404.7
30°	379.4	381.6	386.0	392.6	397.0
32.5°	367.2	369.4	376.0	383.8	388.2
35°	355.1	357.3	365.0	374.9	380.5
37.5°	341.9	345.2	354.0	365.0	371.6
40°	328.6	331.9	341.9	354.0	363.9
42.5°	313.2	317.6	328.6	345.2	356.2
45°	297.7	303.3	316.5	336.3	348.5
47.5°	281.2	286.7	302.2	327.5	340.8
50°	264.7	271.3	290.0	317.6	331.9
52.5°	247.0	253.6	277.9	307.7	323.1
55°	228.3	238.2	265.8	296.6	312.1
57.5°	209.5	220.6	251.4	284.5	301.1
60°	189.7	202.9	238.2	271.3	287.8
62.5°	170.9	185.3	223.9	256.9	273.5
65°	151.1	167.6	208.4	241.5	256.9
67.5°	130.1	151.1	190.8	222.8	238.2
70°	109.2	133.4	173.1	202.9	217.2
72.5°	90.4	115.8	153.3	178.6	178.6
75°	71.7	97.0	131.2	133.4	130.1
77.5°	55.1	79.4	102.6	93.7	95.9
80°	40.8	60.7	65.1	68.4	70.6
82.5°	27.6	40.8	41.9	44.1	44.1
85°	17.6	21.0	22.1	21.0	19.8
87.5°	7.7	8.8	6.6	4.4	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)