

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: P260253

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260253
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-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1400.0 lumens
Efficiency: N/A
Efficacy: 77.6 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

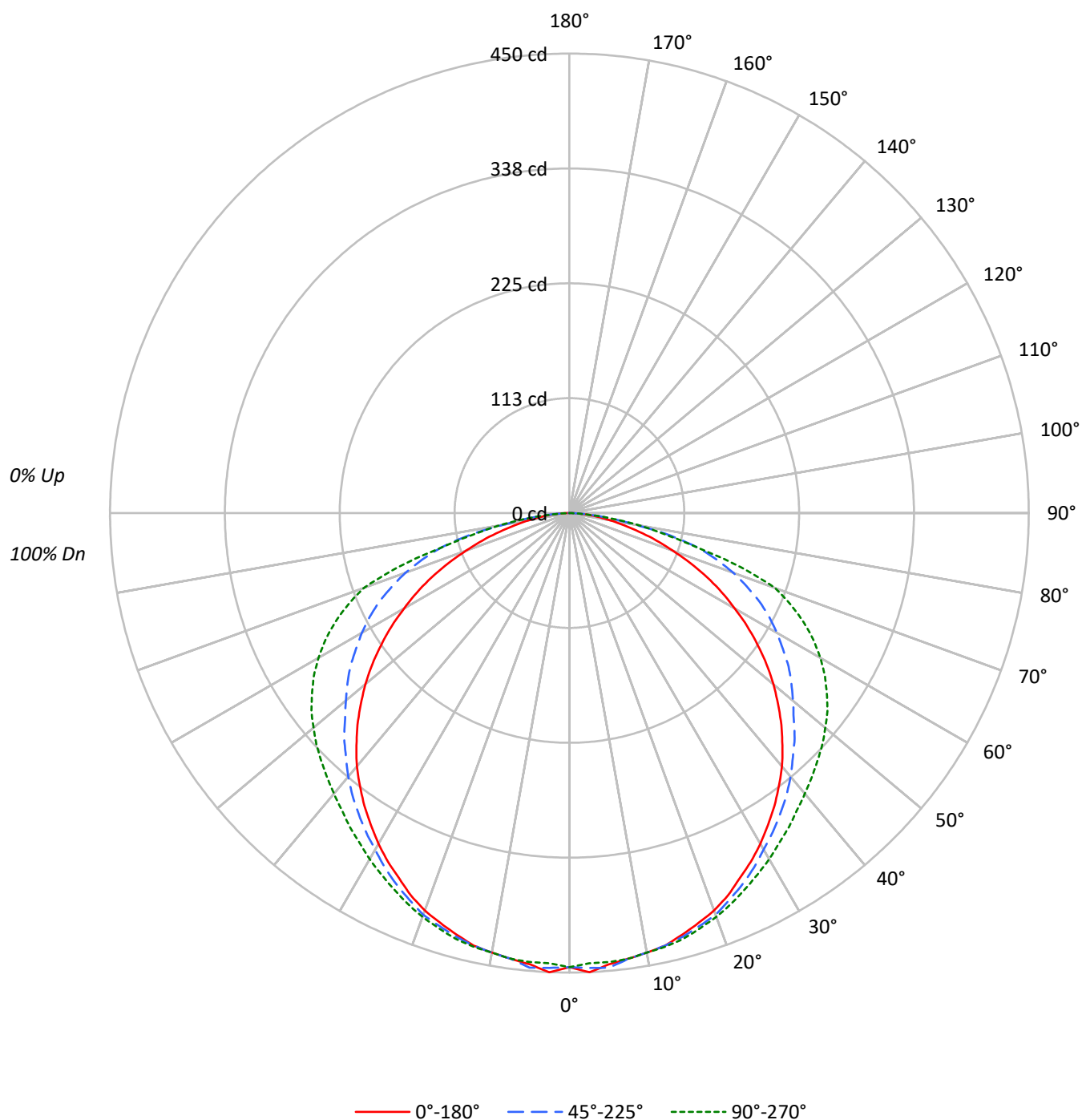
Input Watts (W): 18.034002
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1197	1197	1197
5°	1198	1207	1192
10°	1194	1194	1194
15°	1190	1197	1202
20°	1186	1199	1205
25°	1172	1191	1207
30°	1162	1182	1216
35°	1150	1182	1232
40°	1138	1184	1260
45°	1117	1187	1308
50°	1092	1197	1370
55°	1056	1229	1444
60°	1006	1264	1527
65°	949	1309	1613
70°	847	1343	1685
75°	735	1345	1334
80°	623	993	1079
85°	537	670	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	3.0
10°-20°	121.3	8.7
20°-30°	184.8	13.2
30°-40°	226.1	16.1
40°-50°	243.3	17.4
50°-60°	235.6	16.8
60°-70°	199.6	14.3
70°-80°	120.7	8.6
80°-90°	26.5	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°	348.2	24.9
0°-40°	574.3	41.0
0°-60°	1053.2	75.2
0°-90°	1400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	445	445	445	445	445	
5°	444	444	447	445	441	42
15°	427	428	430	430	432	121
25°	395	397	401	404	407	182
35°	350	352	360	370	375	219
45°	294	299	312	332	344	226
55°	225	235	262	292	308	201
65°	149	165	206	238	253	147
75°	71	96	129	132	128	76
85°	17	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°	444.7	444.7	444.7	444.7	444.7
2.5°	450.1	449.0	445.8	443.6	441.4
5°	443.6	443.6	446.9	444.7	441.4
7.5°	440.3	440.3	440.3	445.8	440.3
10°	437.1	438.2	437.1	441.4	437.1
12.5°	433.8	433.8	433.8	434.9	434.9
15°	427.3	428.4	429.5	430.5	431.6
17.5°	420.8	421.8	424.0	425.1	426.2
20°	414.2	415.3	418.6	418.6	420.8
22.5°	405.5	405.5	409.9	411.0	414.2
25°	394.7	396.8	401.2	404.5	406.6
27.5°	384.9	387.1	391.4	395.8	399.0
30°	374.0	376.2	380.5	387.1	391.4
32.5°	362.0	364.2	370.7	378.4	382.7
35°	350.1	352.3	359.9	369.7	375.1
37.5°	337.0	340.3	349.0	359.9	366.4
40°	324.0	327.3	337.0	349.0	358.8
42.5°	308.8	313.1	324.0	340.3	351.2
45°	293.6	299.0	312.0	331.6	343.6
47.5°	277.2	282.7	297.9	322.9	336.0
50°	260.9	267.5	285.9	313.1	327.3
52.5°	243.5	250.1	274.0	303.3	318.6
55°	225.1	234.8	262.0	292.5	307.7
57.5°	206.6	217.4	247.9	280.5	296.8
60°	187.0	200.1	234.8	267.5	283.8
62.5°	168.5	182.7	220.7	253.3	269.6
65°	149.0	165.3	205.5	238.1	253.3
67.5°	128.3	149.0	188.1	219.6	234.8
70°	107.6	131.6	170.7	200.1	214.2
72.5°	89.2	114.2	151.1	176.1	176.1
75°	70.7	95.7	129.4	131.6	128.3
77.5°	54.4	78.3	101.1	92.4	94.6
80°	40.2	59.8	64.1	67.4	69.6
82.5°	27.2	40.2	41.3	43.5	43.5
85°	17.4	20.7	21.7	20.7	19.6
87.5°	7.6	8.7	6.5	4.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)