

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: P260251

Luminaire Tested: **22CZ-LD5-24-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260251
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-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1187.0 lumens
Efficiency: N/A
Efficacy: 66.0 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

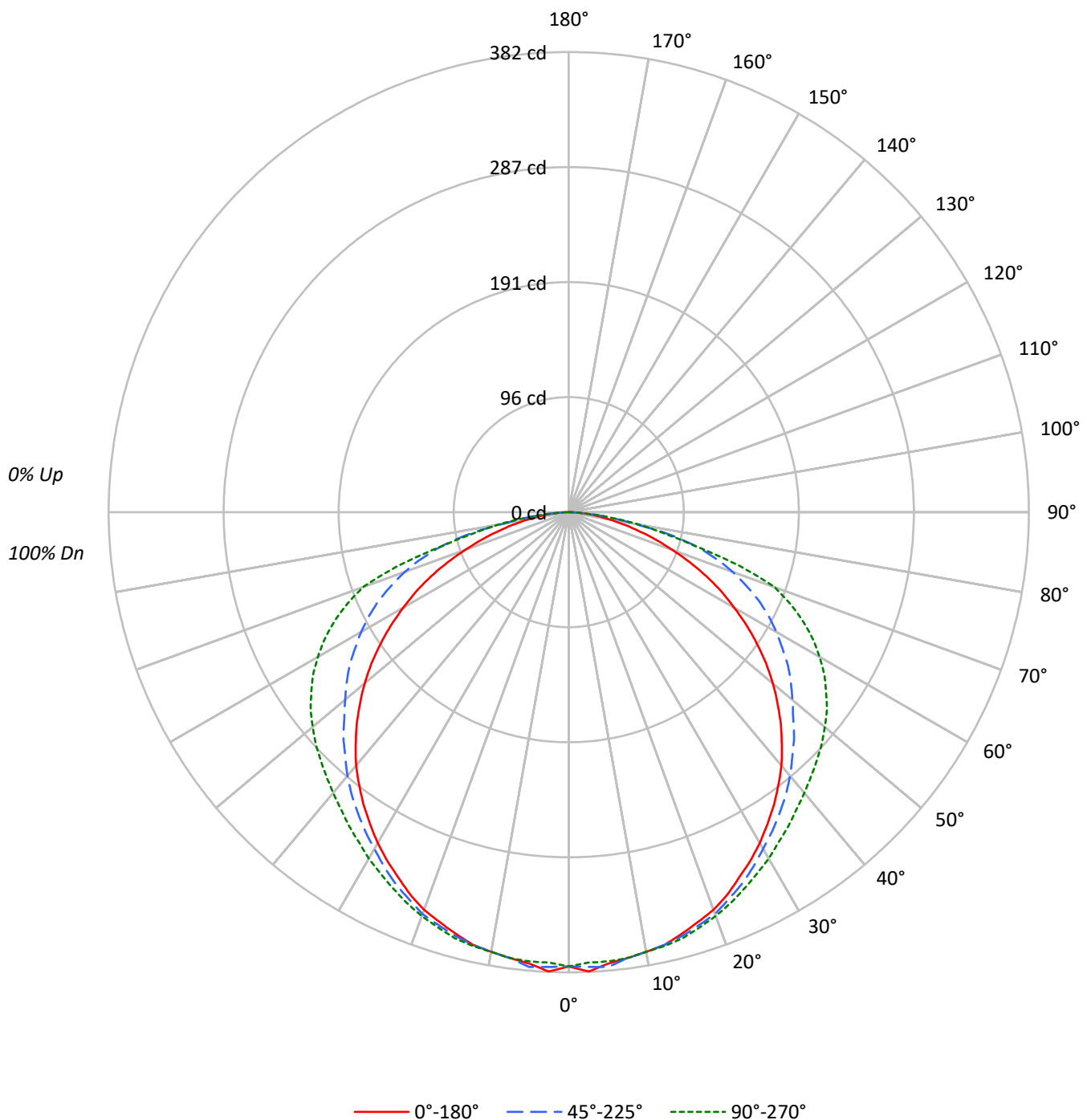
Input Watts (W): 17.981271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1014	1014	1014
5°	1016	1024	1011
10°	1013	1013	1013
15°	1009	1014	1020
20°	1006	1016	1021
25°	993	1010	1024
30°	985	1002	1031
35°	975	1002	1045
40°	965	1004	1069
45°	947	1007	1109
50°	926	1015	1162
55°	895	1042	1224
60°	854	1072	1295
65°	804	1109	1368
70°	718	1138	1429
75°	623	1141	1131
80°	528	843	914
85°	454	568	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	3.0
10°-20°	102.8	8.7
20°-30°	156.7	13.2
30°-40°	191.7	16.1
40°-50°	206.3	17.4
50°-60°	199.8	16.8
60°-70°	169.2	14.3
70°-80°	102.3	8.6
80°-90°	22.5	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°	295.3	24.9
0°-40°	486.9	41.0
0°-60°	893.0	75.2
0°-90°	1187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	377	377	377	377	377	
5°	376	376	379	377	374	36
15°	362	363	364	365	366	102
25°	335	336	340	343	345	154
35°	297	299	305	313	318	186
45°	249	254	265	281	291	192
55°	191	199	222	248	261	170
65°	126	140	174	202	215	124
75°	60	81	110	112	109	64
85°	15	18	18	18	17	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	377.0	377.0	377.0	377.0	377.0
2.5°	381.6	380.7	377.9	376.1	374.3
5°	376.1	376.1	378.9	377.0	374.3
7.5°	373.3	373.3	373.3	377.9	373.3
10°	370.6	371.5	370.6	374.3	370.6
12.5°	367.8	367.8	367.8	368.7	368.7
15°	362.3	363.2	364.1	365.0	366.0
17.5°	356.7	357.7	359.5	360.4	361.4
20°	351.2	352.1	354.9	354.9	356.7
22.5°	343.8	343.8	347.5	348.4	351.2
25°	334.6	336.5	340.2	342.9	344.8
27.5°	326.3	328.2	331.9	335.5	338.3
30°	317.1	318.9	322.6	328.2	331.9
32.5°	307.0	308.8	314.3	320.8	324.5
35°	296.8	298.7	305.1	313.4	318.0
37.5°	285.8	288.5	295.9	305.1	310.7
40°	274.7	277.5	285.8	295.9	304.2
42.5°	261.8	265.5	274.7	288.5	297.7
45°	248.9	253.5	264.6	281.2	291.3
47.5°	235.1	239.7	252.6	273.8	284.8
50°	221.2	226.8	242.4	265.5	277.5
52.5°	206.5	212.0	232.3	257.2	270.1
55°	190.8	199.1	222.2	248.0	260.9
57.5°	175.1	184.4	210.2	237.8	251.7
60°	158.6	169.6	199.1	226.8	240.6
62.5°	142.9	154.9	187.1	214.8	228.6
65°	126.3	140.1	174.2	201.9	214.8
67.5°	108.8	126.3	159.5	186.2	199.1
70°	91.3	111.5	144.7	169.6	181.6
72.5°	75.6	96.8	128.1	149.3	149.3
75°	59.9	81.1	109.7	111.5	108.8
77.5°	46.1	66.4	85.7	78.4	80.2
80°	34.1	50.7	54.4	57.2	59.0
82.5°	23.0	34.1	35.0	36.9	36.9
85°	14.7	17.5	18.4	17.5	16.6
87.5°	6.5	7.4	5.5	3.7	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)