

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: P260241

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260241
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-LD5-44-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2614.0 lumens
Efficiency: N/A
Efficacy: 75.8 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

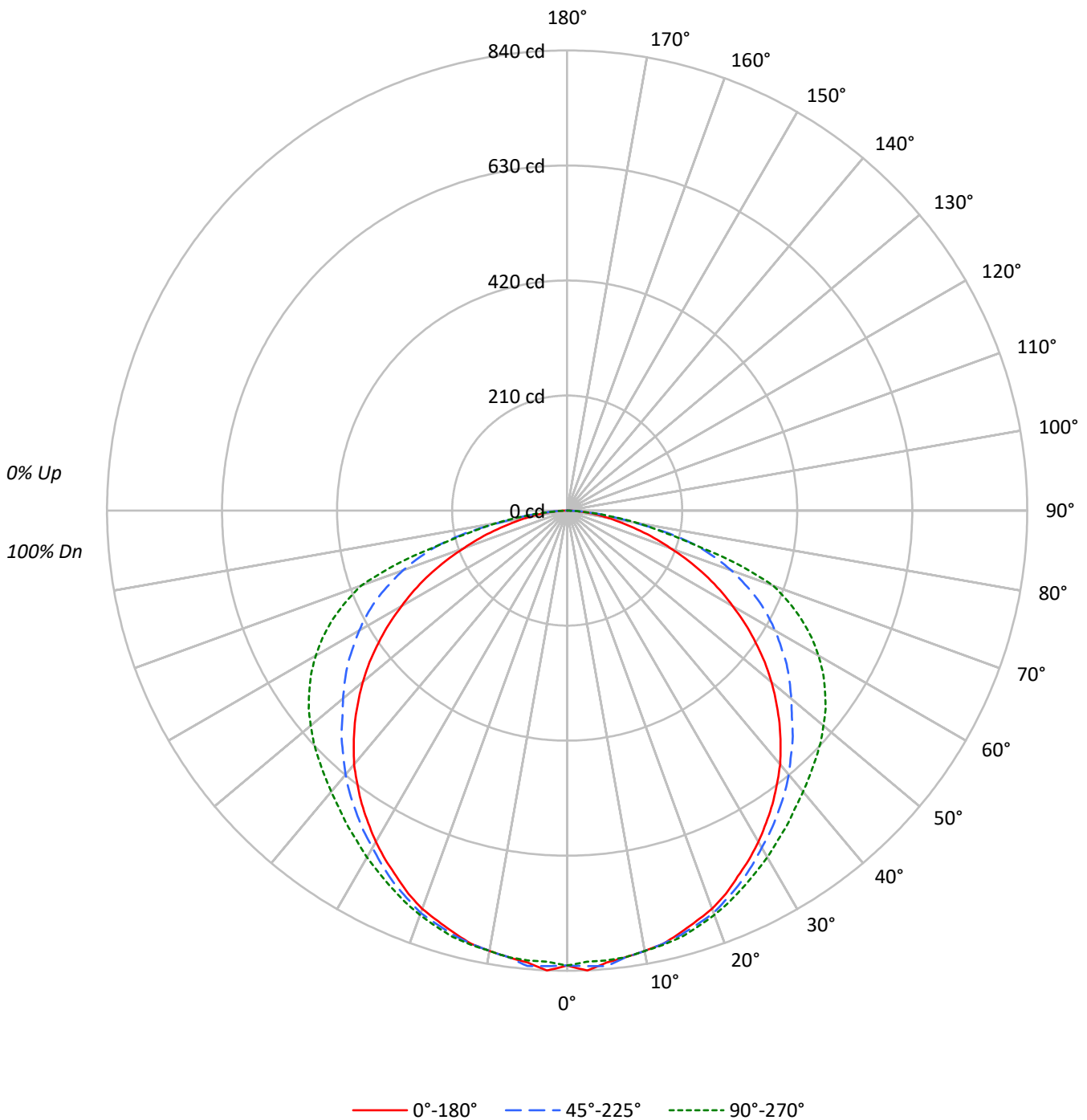
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2234	2234	2234
5°	2237	2254	2226
10°	2230	2230	2230
15°	2223	2234	2245
20°	2215	2238	2250
25°	2188	2224	2254
30°	2170	2208	2271
35°	2147	2207	2301
40°	2125	2211	2353
45°	2086	2217	2441
50°	2040	2235	2558
55°	1971	2295	2695
60°	1879	2360	2851
65°	1771	2443	3012
70°	1581	2507	3146
75°	1372	2512	2490
80°	1164	1857	2013
85°	1003	1254	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.0
10°-20°	226.4	8.7
20°-30°	345.0	13.2
30°-40°	422.1	16.1
40°-50°	454.2	17.4
50°-60°	440.0	16.8
60°-70°	372.7	14.3
70°-80°	225.3	8.6
80°-90°	49.5	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°	650.2	24.9
0°-40°	1072.3	41.0
0°-60°	1966.5	75.2
0°-90°	2614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	828	828	834	830	824	79
15°	798	800	802	804	806	225
25°	737	741	749	755	759	340
35°	654	658	672	690	700	409
45°	548	558	583	619	642	422
55°	420	438	489	546	574	375
65°	278	309	384	445	473	274
75°	132	179	242	246	240	142
85°	32	39	41	39	36	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.3	830.3	830.3	830.3	830.3
2.5°	840.4	838.4	832.3	828.2	824.2
5°	828.2	828.2	834.3	830.3	824.2
7.5°	822.2	822.2	822.2	832.3	822.2
10°	816.1	818.1	816.1	824.2	816.1
12.5°	810.0	810.0	810.0	812.0	812.0
15°	797.8	799.8	801.9	803.9	805.9
17.5°	785.6	787.6	791.7	793.7	795.8
20°	773.4	775.5	781.6	781.6	785.6
22.5°	757.2	757.2	765.3	767.3	773.4
25°	736.9	741.0	749.1	755.2	759.2
27.5°	718.6	722.7	730.8	738.9	745.0
30°	698.3	702.4	710.5	722.7	730.8
32.5°	676.0	680.1	692.2	706.4	714.6
35°	653.7	657.7	671.9	690.2	700.4
37.5°	629.3	635.4	651.6	671.9	684.1
40°	604.9	611.0	629.3	651.6	669.9
42.5°	576.5	584.6	604.9	635.4	655.7
45°	548.1	558.3	582.6	619.2	641.5
47.5°	517.7	527.8	556.2	602.9	627.3
50°	487.2	499.4	533.9	584.6	611.0
52.5°	454.7	466.9	511.6	566.4	594.8
55°	420.2	438.5	489.2	546.1	574.5
57.5°	385.7	406.0	462.8	523.7	554.2
60°	349.2	373.5	438.5	499.4	529.8
62.5°	314.7	341.0	412.1	473.0	503.4
65°	278.1	308.6	383.7	444.6	473.0
67.5°	239.5	278.1	351.2	410.1	438.5
70°	201.0	245.6	318.7	373.5	399.9
72.5°	166.5	213.2	282.2	328.9	328.9
75°	132.0	178.6	241.6	245.6	239.5
77.5°	101.5	146.2	188.8	172.6	176.6
80°	75.1	111.7	119.8	125.9	129.9
82.5°	50.8	75.1	77.1	81.2	81.2
85°	32.5	38.6	40.6	38.6	36.5
87.5°	14.2	16.2	12.2	8.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)