

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: P230838

Luminaire Tested: **22CZ-LD5-44SE-SQP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230838
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-LD5-44SE-SQP-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (56) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2666.0 lumens
Efficiency: N/A
Efficacy: 66.7 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

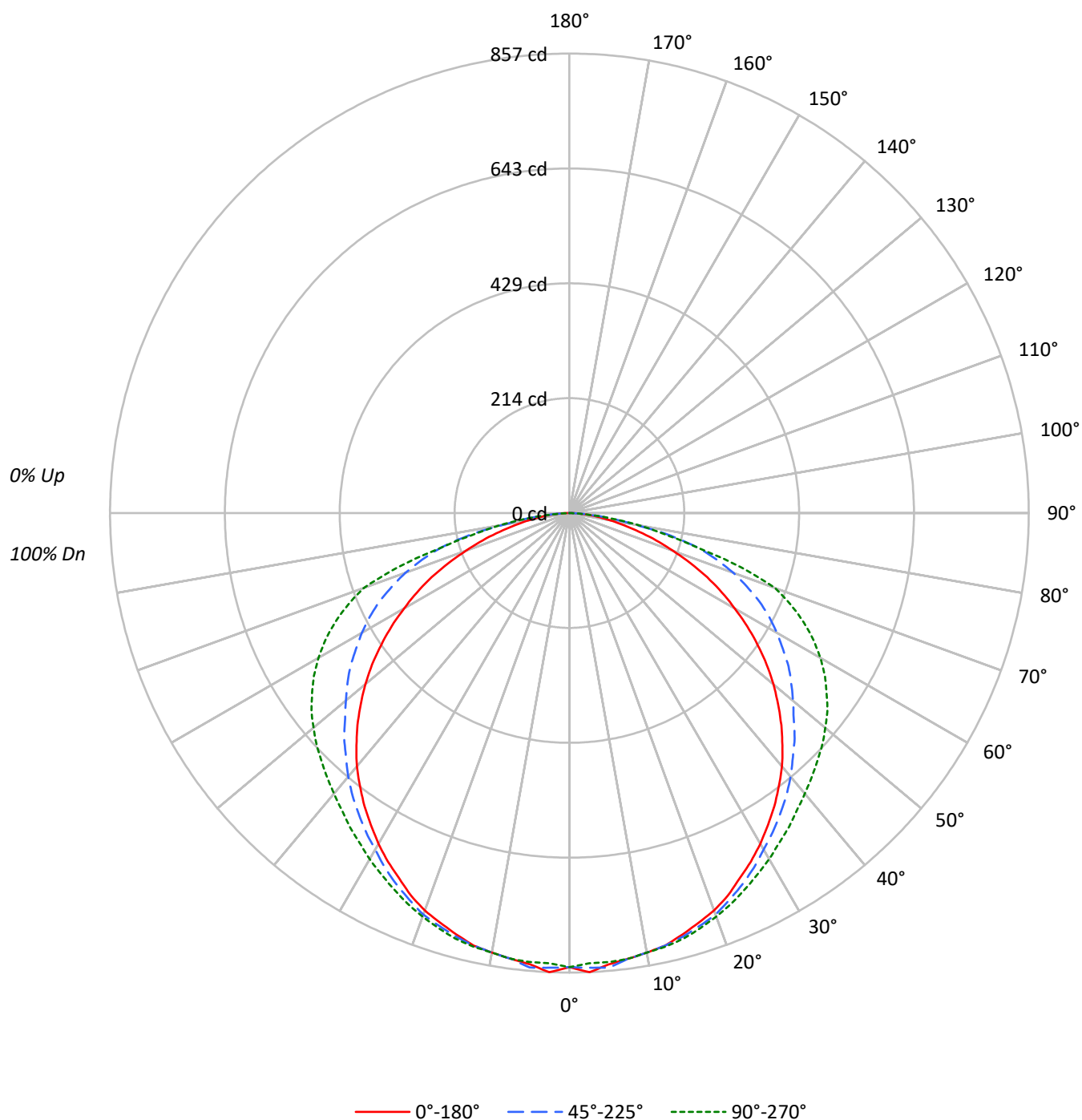
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2279	2279	2279
5°	2282	2299	2271
10°	2274	2274	2274
15°	2267	2278	2290
20°	2259	2283	2294
25°	2232	2268	2299
30°	2213	2252	2316
35°	2190	2251	2347
40°	2167	2255	2400
45°	2127	2261	2490
50°	2080	2280	2609
55°	2011	2341	2749
60°	1917	2407	2908
65°	1806	2492	3072
70°	1613	2558	3209
75°	1399	2562	2540
80°	1187	1894	2053
85°	1022	1278	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.0
10°-20°	230.9	8.7
20°-30°	351.9	13.2
30°-40°	430.5	16.1
40°-50°	463.2	17.4
50°-60°	448.7	16.8
60°-70°	380.1	14.3
70°-80°	229.8	8.6
80°-90°	50.5	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°	663.2	24.9
0°-40°	1093.7	41.0
0°-60°	2005.6	75.2
0°-90°	2666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	845	845	851	847	841	80
15°	814	816	818	820	822	230
25°	752	756	764	770	774	347
35°	667	671	685	704	714	417
45°	559	569	594	632	654	431
55°	429	447	499	557	586	383
65°	284	315	391	453	482	279
75°	135	182	246	250	244	145
85°	33	39	41	39	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	846.8	846.8	846.8	846.8	846.8
2.5°	857.1	855.1	848.9	844.7	840.6
5°	844.7	844.7	850.9	846.8	840.6
7.5°	838.5	838.5	838.5	848.9	838.5
10°	832.3	834.4	832.3	840.6	832.3
12.5°	826.1	826.1	826.1	828.2	828.2
15°	813.7	815.7	817.8	819.9	821.9
17.5°	801.2	803.3	807.5	809.5	811.6
20°	788.8	790.9	797.1	797.1	801.2
22.5°	772.3	772.3	780.5	782.6	788.8
25°	751.6	755.7	764.0	770.2	774.3
27.5°	732.9	737.1	745.3	753.6	759.8
30°	712.2	716.4	724.6	737.1	745.3
32.5°	689.4	693.6	706.0	720.5	728.8
35°	666.7	670.8	685.3	703.9	714.3
37.5°	641.8	648.0	664.6	685.3	697.7
40°	617.0	623.2	641.8	664.6	683.2
42.5°	588.0	596.3	617.0	648.0	668.7
45°	559.0	569.4	594.2	631.5	654.2
47.5°	528.0	538.3	567.3	614.9	639.8
50°	496.9	509.3	544.5	596.3	623.2
52.5°	463.8	476.2	521.7	577.6	606.6
55°	428.6	447.2	499.0	556.9	585.9
57.5°	393.4	414.1	472.1	534.2	565.2
60°	356.1	381.0	447.2	509.3	540.4
62.5°	320.9	347.8	420.3	482.4	513.5
65°	283.6	314.7	391.3	453.4	482.4
67.5°	244.3	283.6	358.2	418.2	447.2
70°	205.0	250.5	325.1	381.0	407.9
72.5°	169.8	217.4	287.8	335.4	335.4
75°	134.6	182.2	246.4	250.5	244.3
77.5°	103.5	149.1	192.5	176.0	180.1
80°	76.6	113.9	122.2	128.4	132.5
82.5°	51.8	76.6	78.7	82.8	82.8
85°	33.1	39.3	41.4	39.3	37.3
87.5°	14.5	16.6	12.4	8.3	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)