

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: P230395

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-SQP-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH SQP LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2317.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

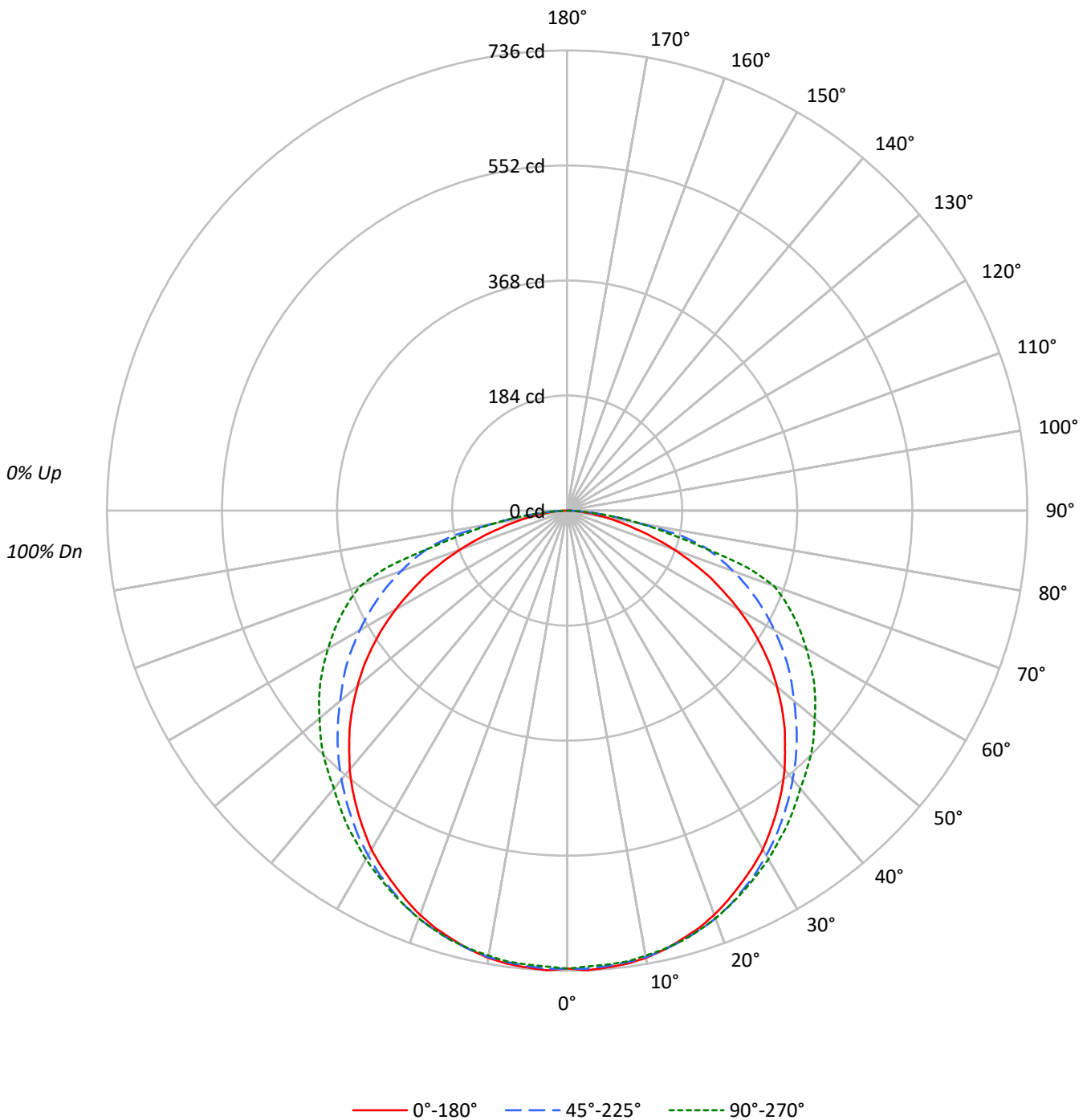
Input Watts (W): 25.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60		70	64	59		67	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	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	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°	985	985	985
5°	991	988	984
10°	992	991	988
15°	989	992	992
20°	985	994	994
25°	977	991	995
30°	972	989	1000
35°	961	987	1008
40°	950	986	1019
45°	936	988	1050
50°	917	992	1082
55°	893	1011	1131
60°	853	1031	1188
65°	800	1063	1273
70°	716	1111	1384
75°	591	1188	1145
80°	482	918	927
85°	387	610	573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.0
10°-20°	200.7	8.7
20°-30°	306.8	13.2
30°-40°	375.2	16.2
40°-50°	401.5	17.3
50°-60°	384.4	16.6
60°-70°	325.2	14.0
70°-80°	206.1	8.9
80°-90°	47.4	2.0
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°	577.1	24.9
0°-40°	952.3	41.1
0°-60°	1738.2	75.0
0°-90°	2317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	734	730	731	730	729	70
15°	710	708	712	712	712	200
25°	658	658	668	670	670	304
35°	585	589	601	609	614	366
45°	492	500	519	541	552	379
55°	381	392	431	467	482	339
65°	251	275	334	379	400	248
75°	114	160	229	227	220	124
85°	25	38	40	36	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.4	732.4	732.4	732.4	732.4
2.5°	736.0	732.4	733.6	732.4	730.0
5°	733.6	730.0	731.2	730.0	728.8
7.5°	731.2	727.6	728.8	727.6	727.6
10°	726.4	722.9	725.2	724.1	722.9
12.5°	719.3	716.9	719.3	718.1	718.1
15°	709.7	708.5	712.1	712.1	712.1
17.5°	700.1	698.9	703.7	703.7	703.7
20°	688.1	687.0	694.1	694.1	694.1
22.5°	673.8	672.6	682.2	682.2	682.2
25°	658.2	658.2	667.8	670.2	670.2
27.5°	642.7	642.7	653.4	657.0	657.0
30°	625.9	625.9	636.7	641.5	643.9
32.5°	605.6	608.0	619.9	625.9	628.3
35°	585.2	588.8	600.8	609.2	613.9
37.5°	563.7	567.3	581.6	591.2	597.2
40°	540.9	545.7	561.3	573.3	580.4
42.5°	515.8	523.0	540.9	556.5	566.1
45°	491.9	500.3	519.4	540.9	551.7
47.5°	465.5	475.1	496.7	524.2	535.0
50°	438.0	447.6	473.9	505.0	517.0
52.5°	410.5	421.3	452.4	485.9	500.3
55°	380.6	392.5	430.8	466.7	482.3
57.5°	349.5	363.8	406.9	445.2	462.0
60°	317.1	335.1	383.0	423.7	441.6
62.5°	283.6	305.2	359.0	402.1	421.3
65°	251.3	275.3	333.9	379.4	399.7
67.5°	216.6	246.5	308.8	357.8	377.0
70°	181.9	216.6	282.4	332.7	351.9
72.5°	147.2	189.1	256.1	301.6	301.6
75°	113.7	160.4	228.6	227.4	220.2
77.5°	86.2	134.0	187.9	160.4	161.6
80°	62.2	107.7	118.5	118.5	119.7
82.5°	41.9	82.6	76.6	75.4	77.8
85°	25.1	38.3	39.5	35.9	37.1
87.5°	12.0	13.2	10.8	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)