

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: P230507

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-RDP-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2231.7 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

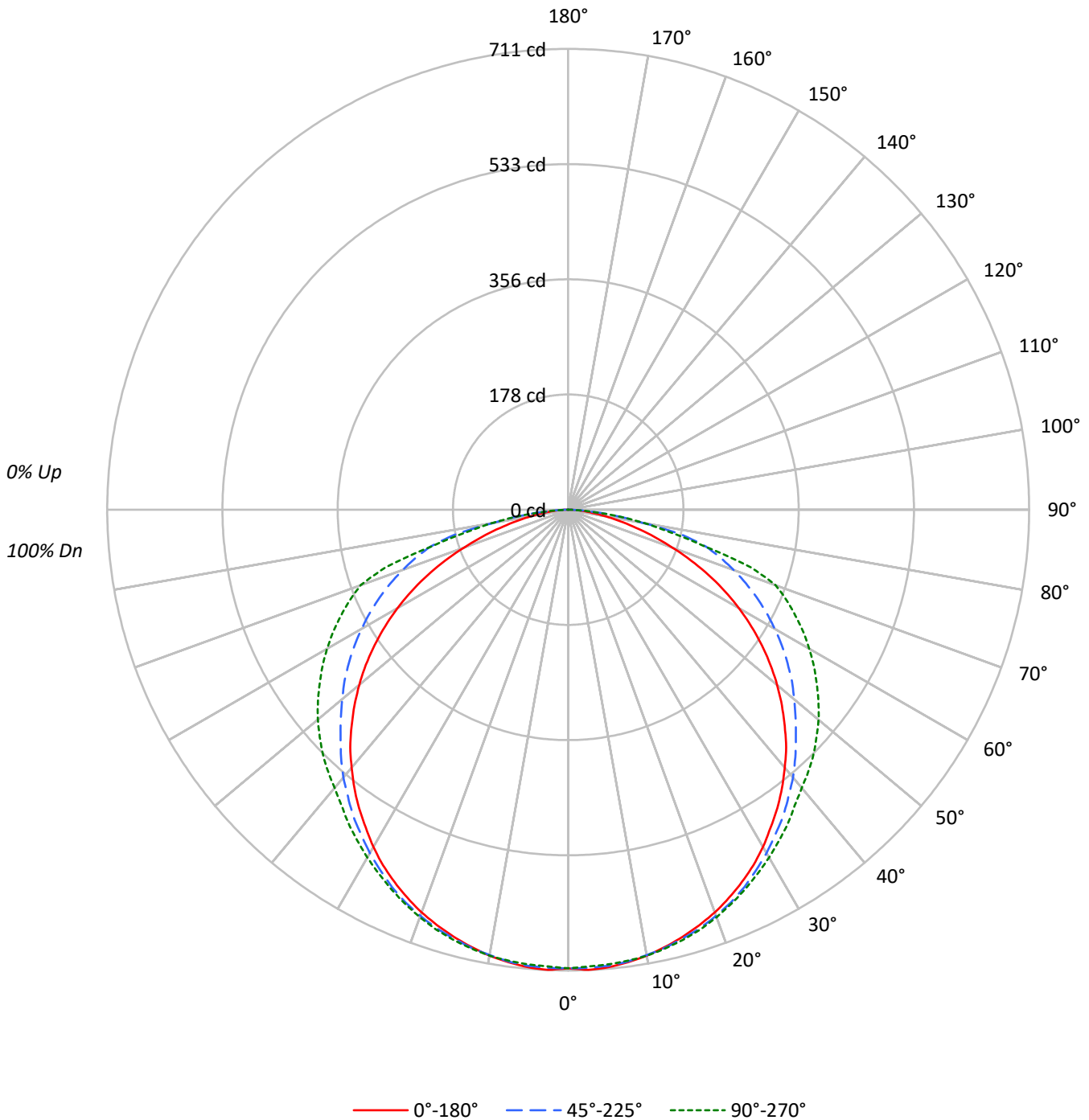
Input Watts (W): 28.57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	952	952	952
5°	957	954	951
10°	955	953	955
15°	950	953	956
20°	947	955	958
25°	941	954	959
30°	934	951	963
35°	924	949	971
40°	913	947	984
45°	899	945	1018
50°	881	952	1055
55°	856	969	1098
60°	819	990	1156
65°	762	1021	1231
70°	674	1067	1340
75°	566	1142	1125
80°	451	902	936
85°	357	610	560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.0
10°-20°	193.1	8.7
20°-30°	295.0	13.2
30°-40°	360.6	16.2
40°-50°	386.0	17.3
50°-60°	370.2	16.6
60°-70°	312.6	14.0
70°-80°	199.8	9.0
80°-90°	47.2	2.1
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°	555.2	24.9
0°-40°	915.8	41.0
0°-60°	1672.0	74.9
0°-90°	2231.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	709	704	706	705	704	67
15°	682	680	684	687	687	193
25°	634	633	643	645	646	292
35°	562	567	578	586	591	352
45°	472	480	496	520	535	364
55°	365	377	413	450	468	325
65°	240	262	321	366	387	236
75°	109	155	220	224	216	117
85°	23	38	40	38	36	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.5	707.5	707.5	707.5	707.5
2.5°	710.7	706.4	707.5	707.5	705.3
5°	708.6	704.2	706.4	705.3	704.2
7.5°	704.2	700.9	703.1	703.1	702.0
10°	698.7	695.4	697.6	698.7	698.7
12.5°	691.0	688.8	692.1	692.1	693.2
15°	682.2	680.0	684.4	686.6	686.6
17.5°	672.3	671.2	676.7	677.8	678.9
20°	661.3	660.2	666.8	666.8	669.0
22.5°	648.1	647.0	655.8	655.8	658.0
25°	633.9	632.8	642.6	644.8	645.9
27.5°	618.5	617.4	627.3	630.6	632.8
30°	600.9	600.9	611.9	616.3	619.6
32.5°	581.1	584.4	594.3	600.9	605.3
35°	562.4	566.8	577.8	585.5	591.0
37.5°	541.6	546.0	558.1	567.9	574.5
40°	519.6	525.1	539.4	550.4	560.3
42.5°	497.6	503.1	518.5	535.0	548.2
45°	472.4	480.1	496.5	519.6	535.0
47.5°	447.1	454.8	475.7	504.2	519.6
50°	420.7	429.5	454.8	487.7	504.2
52.5°	393.3	403.2	435.0	470.2	486.6
55°	364.7	376.8	413.0	450.4	468.0
57.5°	335.1	348.2	391.1	430.6	449.3
60°	304.3	320.8	368.0	409.8	429.5
62.5°	272.4	292.2	344.9	387.8	408.7
65°	239.5	262.5	320.8	365.8	386.7
67.5°	205.4	236.2	296.6	343.8	364.7
70°	171.4	207.6	271.3	319.7	340.5
72.5°	139.5	181.3	246.1	291.1	295.5
75°	108.8	154.9	219.7	224.1	216.4
77.5°	81.3	128.5	181.3	161.5	160.4
80°	58.2	103.3	116.4	119.7	120.8
82.5°	38.4	78.0	75.8	78.0	76.9
85°	23.1	38.4	39.5	38.4	36.3
87.5°	11.0	14.3	11.0	9.9	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)