

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: P230467

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230467
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-LD5-35-RDP-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2208.6 lumens
Efficiency: N/A
Efficacy: 87.2 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

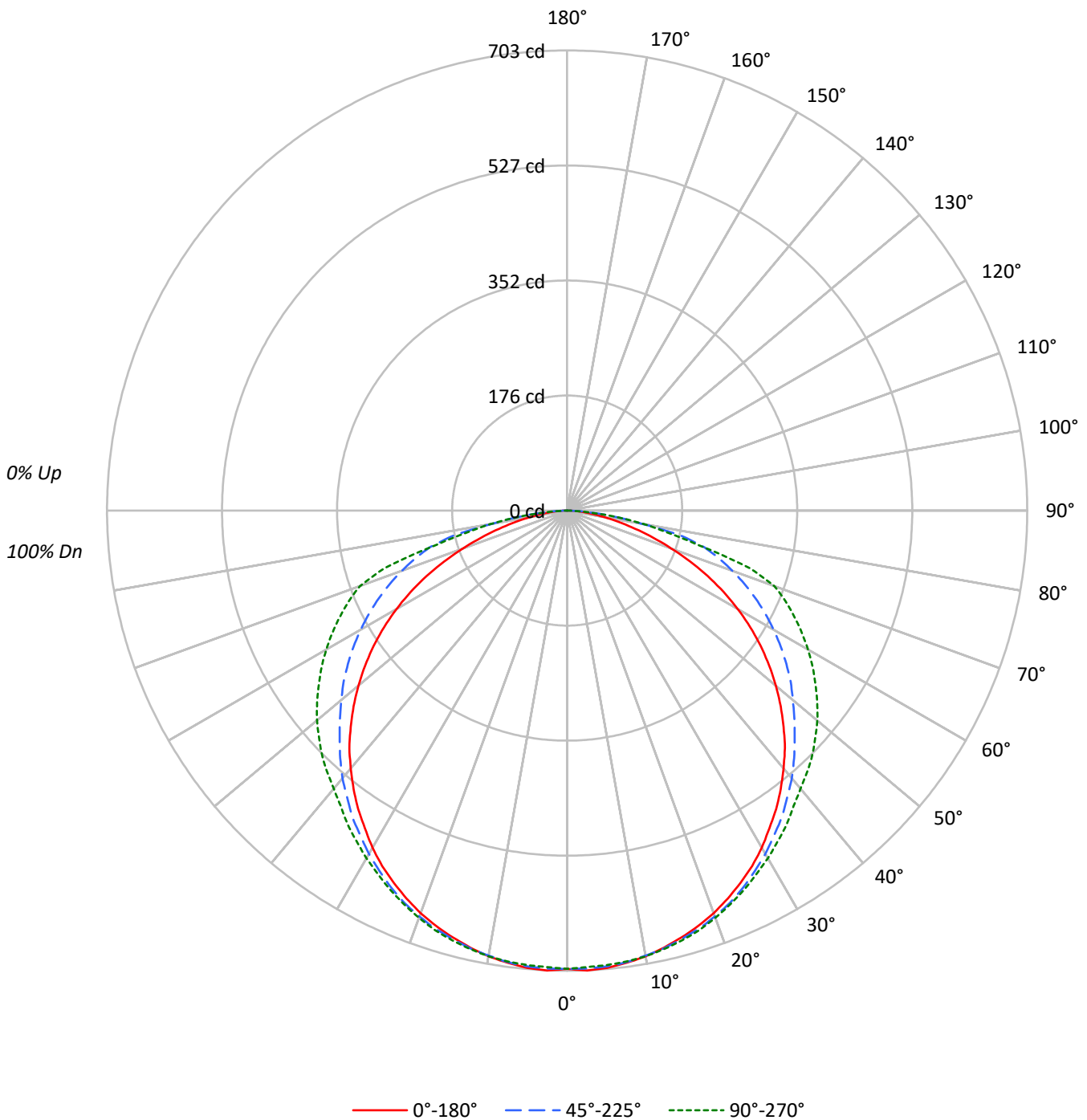
Input Watts (W): 25.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	942	942	942
5°	947	944	941
10°	945	943	945
15°	940	943	947
20°	937	945	948
25°	931	944	949
30°	924	941	953
35°	914	939	961
40°	903	938	974
45°	890	935	1008
50°	872	942	1045
55°	847	959	1086
60°	811	980	1144
65°	755	1011	1218
70°	667	1056	1326
75°	559	1130	1114
80°	446	893	927
85°	352	604	554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.0
10°-20°	191.1	8.7
20°-30°	291.9	13.2
30°-40°	356.9	16.2
40°-50°	382.0	17.3
50°-60°	366.4	16.6
60°-70°	309.4	14.0
70°-80°	197.7	9.0
80°-90°	46.8	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°	549.4	24.9
0°-40°	906.3	41.0
0°-60°	1654.7	74.9
0°-90°	2208.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2208.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	701	697	699	698	697	67
15°	675	673	677	680	680	191
25°	627	626	636	638	639	289
35°	557	561	572	580	585	348
45°	468	475	491	514	530	361
55°	361	373	409	446	463	322
65°	237	260	318	362	383	234
75°	108	153	217	222	214	116
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.1	700.1	700.1	700.1	700.1
2.5°	703.4	699.1	700.1	700.1	698.0
5°	701.2	696.9	699.1	698.0	696.9
7.5°	696.9	693.6	695.8	695.8	694.7
10°	691.5	688.2	690.4	691.5	691.5
12.5°	683.8	681.7	684.9	684.9	686.0
15°	675.1	673.0	677.3	679.5	679.5
17.5°	665.4	664.3	669.7	670.8	671.9
20°	654.5	653.4	659.9	659.9	662.1
22.5°	641.4	640.4	649.0	649.0	651.2
25°	627.3	626.2	636.0	638.2	639.3
27.5°	612.1	611.0	620.8	624.0	626.2
30°	594.7	594.7	605.6	609.9	613.2
32.5°	575.1	578.4	588.2	594.7	599.0
35°	556.6	561.0	571.9	579.5	584.9
37.5°	536.0	540.3	552.3	562.1	568.6
40°	514.2	519.7	533.8	544.7	554.5
42.5°	492.5	497.9	513.2	529.5	542.5
45°	467.5	475.1	491.4	514.2	529.5
47.5°	442.5	450.1	470.8	499.0	514.2
50°	416.4	425.1	450.1	482.7	499.0
52.5°	389.2	399.0	430.5	465.3	481.6
55°	360.9	372.9	408.8	445.7	463.1
57.5°	331.6	344.6	387.0	426.2	444.7
60°	301.2	317.5	364.2	405.5	425.1
62.5°	269.6	289.2	341.4	383.8	404.4
65°	237.0	259.8	317.5	362.0	382.7
67.5°	203.3	233.7	293.5	340.3	360.9
70°	169.6	205.5	268.5	316.4	337.0
72.5°	138.1	179.4	243.5	288.1	292.5
75°	107.6	153.3	217.4	221.8	214.2
77.5°	80.5	127.2	179.4	159.8	158.7
80°	57.6	102.2	115.2	118.5	119.6
82.5°	38.1	77.2	75.0	77.2	76.1
85°	22.8	38.1	39.1	38.1	35.9
87.5°	10.9	14.1	10.9	9.8	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)