

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: P230504

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230504
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-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1926.1 lumens
Efficiency: N/A
Efficacy: 67.4 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

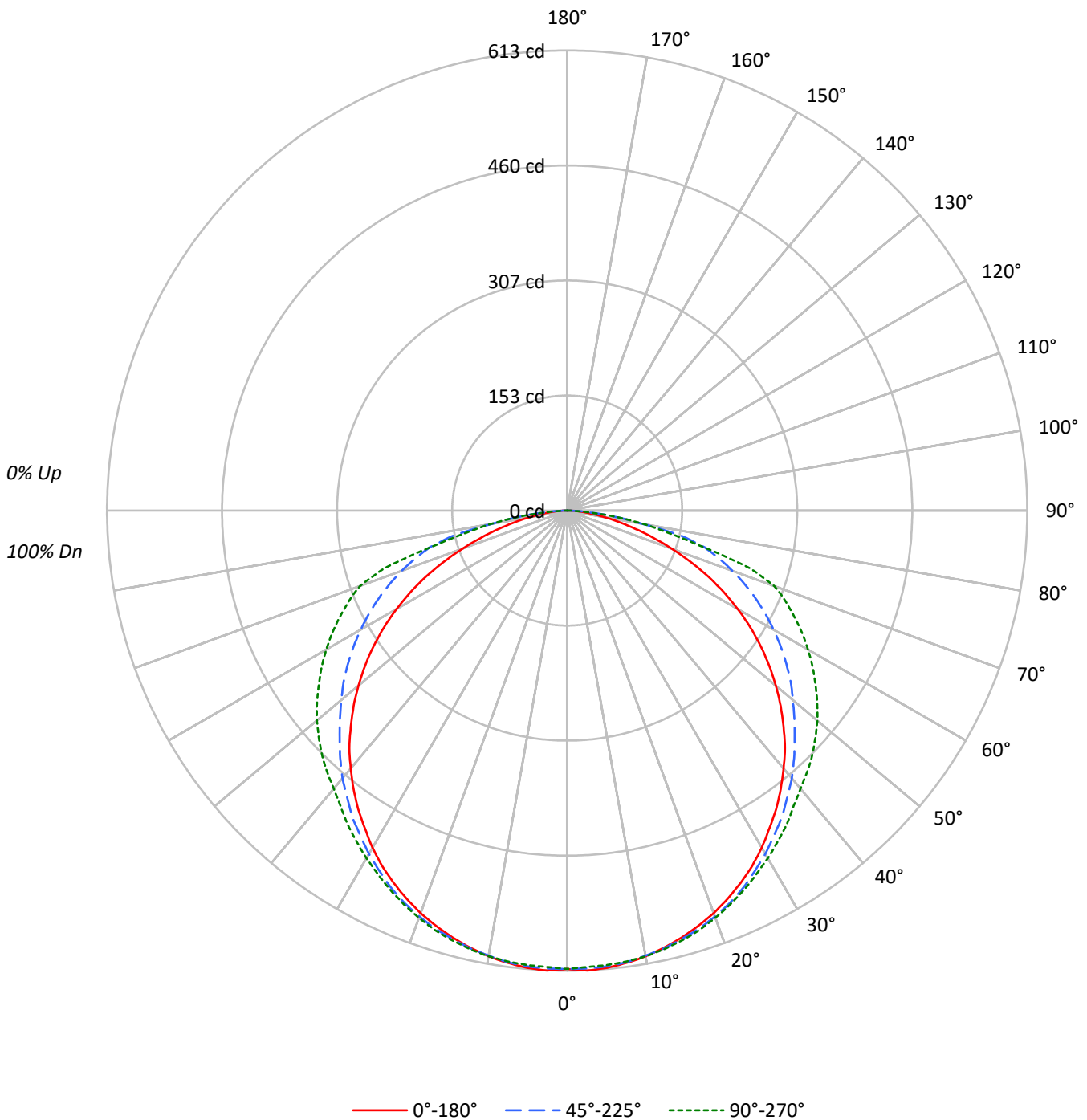
Input Watts (W): 28.57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	822	822	822
5°	826	823	821
10°	824	823	824
15°	820	823	825
20°	817	824	827
25°	812	823	828
30°	806	820	831
35°	797	819	838
40°	788	818	849
45°	776	816	879
50°	760	822	911
55°	738	836	947
60°	707	855	998
65°	658	882	1062
70°	582	921	1156
75°	488	986	971
80°	390	779	808
85°	307	526	483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.0
10°-20°	166.7	8.7
20°-30°	254.6	13.2
30°-40°	311.2	16.2
40°-50°	333.1	17.3
50°-60°	319.6	16.6
60°-70°	269.8	14.0
70°-80°	172.4	9.0
80°-90°	40.8	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°	479.2	24.9
0°-40°	790.4	41.0
0°-60°	1443.1	74.9
0°-90°	1926.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1926.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	612	608	610	609	608	58
15°	589	587	591	593	593	166
25°	547	546	555	557	558	252
35°	485	489	499	505	510	304
45°	408	414	429	448	462	314
55°	315	325	356	389	404	281
65°	207	227	277	316	334	204
75°	94	134	190	193	187	101
85°	20	33	34	33	31	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.6	610.6	610.6	610.6	610.6
2.5°	613.4	609.6	610.6	610.6	608.7
5°	611.5	607.7	609.6	608.7	607.7
7.5°	607.7	604.9	606.8	606.8	605.9
10°	603.0	600.2	602.1	603.0	603.0
12.5°	596.4	594.5	597.3	597.3	598.3
15°	588.8	586.9	590.7	592.6	592.6
17.5°	580.3	579.3	584.0	585.0	585.9
20°	570.8	569.8	575.5	575.5	577.4
22.5°	559.4	558.4	566.0	566.0	567.9
25°	547.1	546.1	554.7	556.6	557.5
27.5°	533.8	532.8	541.4	544.2	546.1
30°	518.6	518.6	528.1	531.9	534.7
32.5°	501.6	504.4	512.9	518.6	522.4
35°	485.4	489.2	498.7	505.4	510.1
37.5°	467.4	471.2	481.6	490.2	495.9
40°	448.5	453.2	465.5	475.0	483.5
42.5°	429.5	434.2	447.5	461.7	473.1
45°	407.7	414.3	428.6	448.5	461.7
47.5°	385.9	392.5	410.5	435.2	448.5
50°	363.1	370.7	392.5	421.0	435.2
52.5°	339.4	348.0	375.5	405.8	420.0
55°	314.8	325.2	356.5	388.7	403.9
57.5°	289.2	300.6	337.5	371.7	387.8
60°	262.6	276.9	317.6	353.7	370.7
62.5°	235.1	252.2	297.7	334.7	352.7
65°	206.7	226.6	276.9	315.7	333.7
67.5°	177.3	203.8	256.0	296.8	314.8
70°	147.9	179.2	234.2	275.9	293.9
72.5°	120.4	156.4	212.4	251.3	255.0
75°	93.9	133.7	189.6	193.4	186.8
77.5°	70.2	110.9	156.4	139.4	138.4
80°	50.3	89.1	100.5	103.3	104.3
82.5°	33.2	67.3	65.4	67.3	66.4
85°	19.9	33.2	34.1	33.2	31.3
87.5°	9.5	12.3	9.5	8.5	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)