

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: P263624

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263624
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-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2269.4 lumens
Efficiency: N/A
Efficacy: 84.9 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

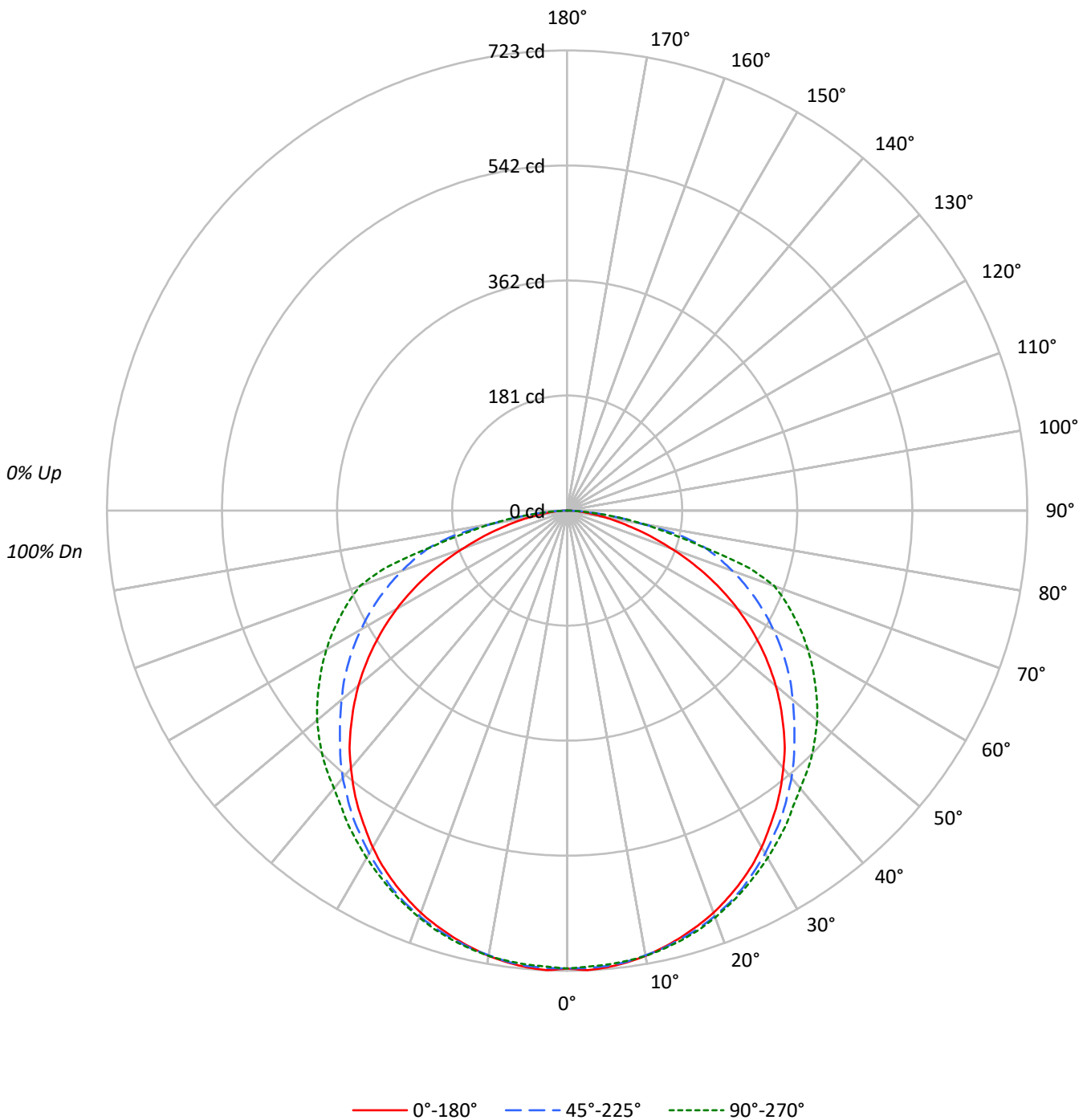
Input Watts (W): 26.71704
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	968	968	968
5°	973	970	967
10°	971	969	971
15°	966	969	973
20°	963	971	974
25°	957	970	975
30°	949	967	979
35°	940	965	987
40°	928	963	1001
45°	914	961	1035
50°	896	968	1073
55°	870	985	1116
60°	833	1007	1175
65°	775	1039	1252
70°	686	1085	1362
75°	575	1161	1144
80°	459	917	952
85°	363	621	570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.0
10°-20°	196.4	8.7
20°-30°	300.0	13.2
30°-40°	366.7	16.2
40°-50°	392.5	17.3
50°-60°	376.5	16.6
60°-70°	317.9	14.0
70°-80°	203.2	9.0
80°-90°	48.1	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°	564.6	24.9
0°-40°	931.3	41.0
0°-60°	1700.3	74.9
0°-90°	2269.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2269.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	720	716	718	717	716	68
15°	694	692	696	698	698	196
25°	645	644	654	656	657	297
35°	572	576	588	595	601	358
45°	480	488	505	528	544	371
55°	371	383	420	458	476	331
65°	244	267	326	372	393	240
75°	111	158	223	228	220	119
85°	24	39	40	39	37	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.4	719.4	719.4	719.4	719.4
2.5°	722.8	718.3	719.4	719.4	717.2
5°	720.5	716.1	718.3	717.2	716.1
7.5°	716.1	712.7	715.0	715.0	713.8
10°	710.5	707.1	709.4	710.5	710.5
12.5°	702.7	700.4	703.8	703.8	704.9
15°	693.7	691.5	696.0	698.2	698.2
17.5°	683.7	682.6	688.1	689.3	690.4
20°	672.5	671.4	678.1	678.1	680.3
22.5°	659.1	658.0	666.9	666.9	669.1
25°	644.6	643.5	653.5	655.7	656.9
27.5°	628.9	627.8	637.9	641.2	643.5
30°	611.1	611.1	622.2	626.7	630.1
32.5°	591.0	594.3	604.4	611.1	615.5
35°	572.0	576.4	587.6	595.4	601.0
37.5°	550.7	555.2	567.5	577.5	584.2
40°	528.4	534.0	548.5	559.7	569.7
42.5°	506.1	511.6	527.3	544.0	557.4
45°	480.4	488.2	504.9	528.4	544.0
47.5°	454.7	462.5	483.7	512.8	528.4
50°	427.9	436.8	462.5	496.0	512.8
52.5°	399.9	410.0	442.4	478.1	494.9
55°	370.9	383.2	420.0	458.0	475.9
57.5°	340.7	354.1	397.7	437.9	456.9
60°	309.4	326.2	374.2	416.7	436.8
62.5°	277.0	297.2	350.8	394.3	415.6
65°	243.5	267.0	326.2	372.0	393.2
67.5°	208.9	240.2	301.6	349.7	370.9
70°	174.3	211.1	275.9	325.1	346.3
72.5°	141.9	184.3	250.2	296.0	300.5
75°	110.6	157.5	223.4	227.9	220.1
77.5°	82.7	130.7	184.3	164.2	163.1
80°	59.2	105.0	118.4	121.8	122.9
82.5°	39.1	79.3	77.1	79.3	78.2
85°	23.5	39.1	40.2	39.1	36.9
87.5°	11.2	14.5	11.2	10.1	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)