

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: P263791

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263791
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2261.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

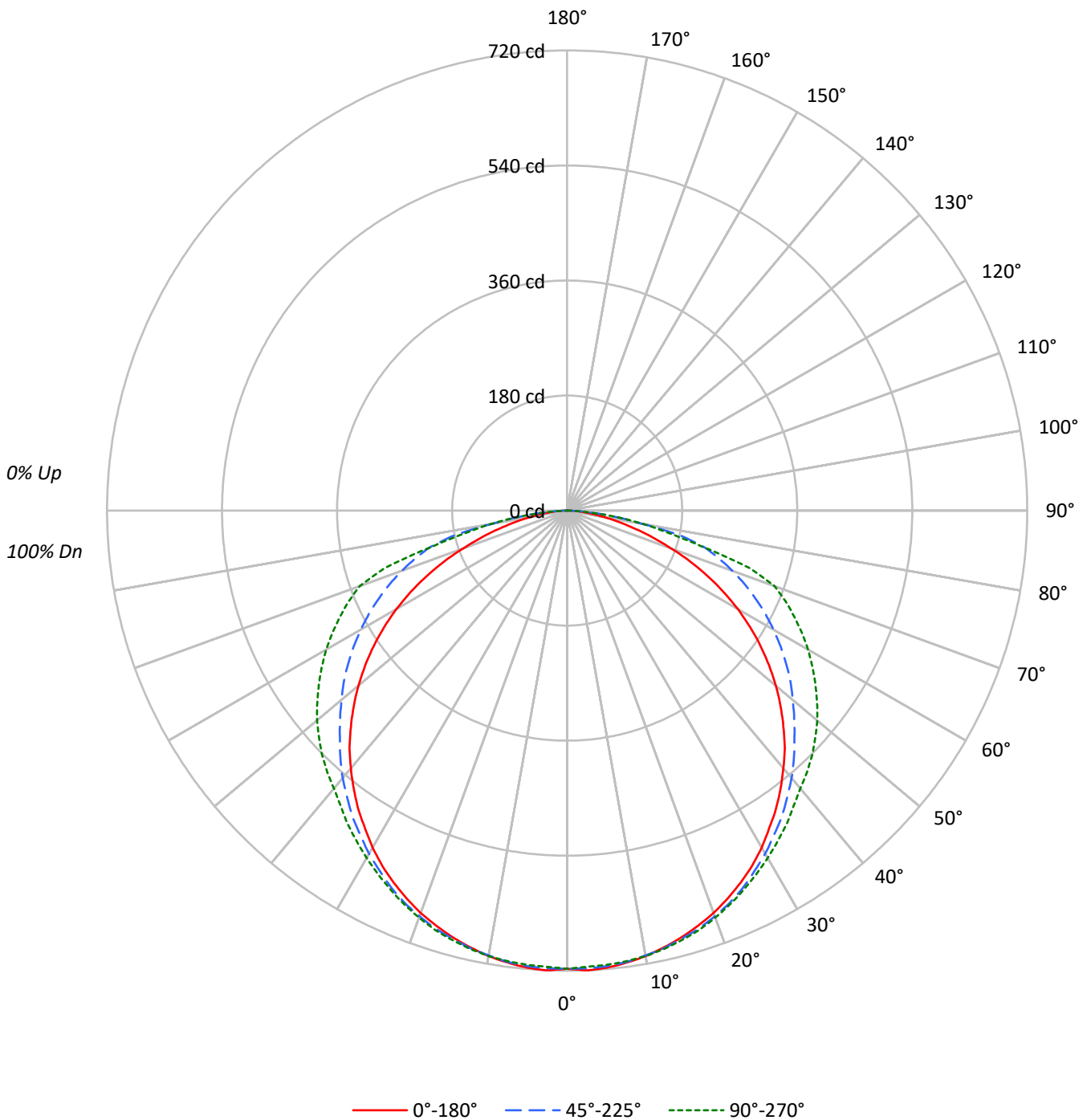
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	964	964	964
5°	970	967	964
10°	967	966	967
15°	963	966	969
20°	959	967	971
25°	953	967	972
30°	946	963	975
35°	936	962	984
40°	925	960	997
45°	911	957	1031
50°	892	965	1069
55°	867	982	1112
60°	830	1003	1171
65°	772	1035	1247
70°	683	1081	1357
75°	573	1157	1140
80°	457	914	948
85°	361	619	567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.0
10°-20°	195.6	8.7
20°-30°	298.8	13.2
30°-40°	365.3	16.2
40°-50°	391.1	17.3
50°-60°	375.1	16.6
60°-70°	316.7	14.0
70°-80°	202.4	9.0
80°-90°	47.9	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°	562.5	24.9
0°-40°	927.8	41.0
0°-60°	1694.0	74.9
0°-90°	2261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	718	713	716	714	713	68
15°	691	689	693	696	696	195
25°	642	641	651	653	654	296
35°	570	574	585	593	599	356
45°	479	486	503	526	542	369
55°	370	382	418	456	474	330
65°	243	266	325	371	392	239
75°	110	157	223	227	219	119
85°	23	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°	716.8	716.8	716.8	716.8	716.8
2.5°	720.1	715.6	716.8	716.8	714.5
5°	717.9	713.4	715.6	714.5	713.4
7.5°	713.4	710.1	712.3	712.3	711.2
10°	707.9	704.5	706.7	707.9	707.9
12.5°	700.1	697.8	701.2	701.2	702.3
15°	691.2	688.9	693.4	695.6	695.6
17.5°	681.1	680.0	685.6	686.7	687.8
20°	670.0	668.9	675.6	675.6	677.8
22.5°	656.7	655.5	664.4	664.4	666.7
25°	642.2	641.1	651.1	653.3	654.4
27.5°	626.6	625.5	635.5	638.8	641.1
30°	608.8	608.8	619.9	624.4	627.7
32.5°	588.8	592.1	602.1	608.8	613.2
35°	569.8	574.3	585.4	593.2	598.8
37.5°	548.7	553.1	565.4	575.4	582.1
40°	526.4	532.0	546.5	557.6	567.6
42.5°	504.2	509.7	525.3	542.0	555.4
45°	478.6	486.4	503.1	526.4	542.0
47.5°	453.0	460.8	481.9	510.9	526.4
50°	426.3	435.2	460.8	494.2	510.9
52.5°	398.4	408.5	440.7	476.4	493.0
55°	369.5	381.8	418.5	456.3	474.1
57.5°	339.5	352.8	396.2	436.3	455.2
60°	308.3	325.0	372.8	415.1	435.2
62.5°	276.0	296.1	349.5	392.9	414.0
65°	242.6	266.0	325.0	370.6	391.8
67.5°	208.1	239.3	300.5	348.4	369.5
70°	173.6	210.4	274.9	323.9	345.0
72.5°	141.3	183.6	249.3	294.9	299.4
75°	110.2	156.9	222.6	227.0	219.3
77.5°	82.4	130.2	183.6	163.6	162.5
80°	59.0	104.6	118.0	121.3	122.4
82.5°	39.0	79.0	76.8	79.0	77.9
85°	23.4	39.0	40.1	39.0	36.7
87.5°	11.1	14.5	11.1	10.0	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)