

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: P263654

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263654
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-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2442.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

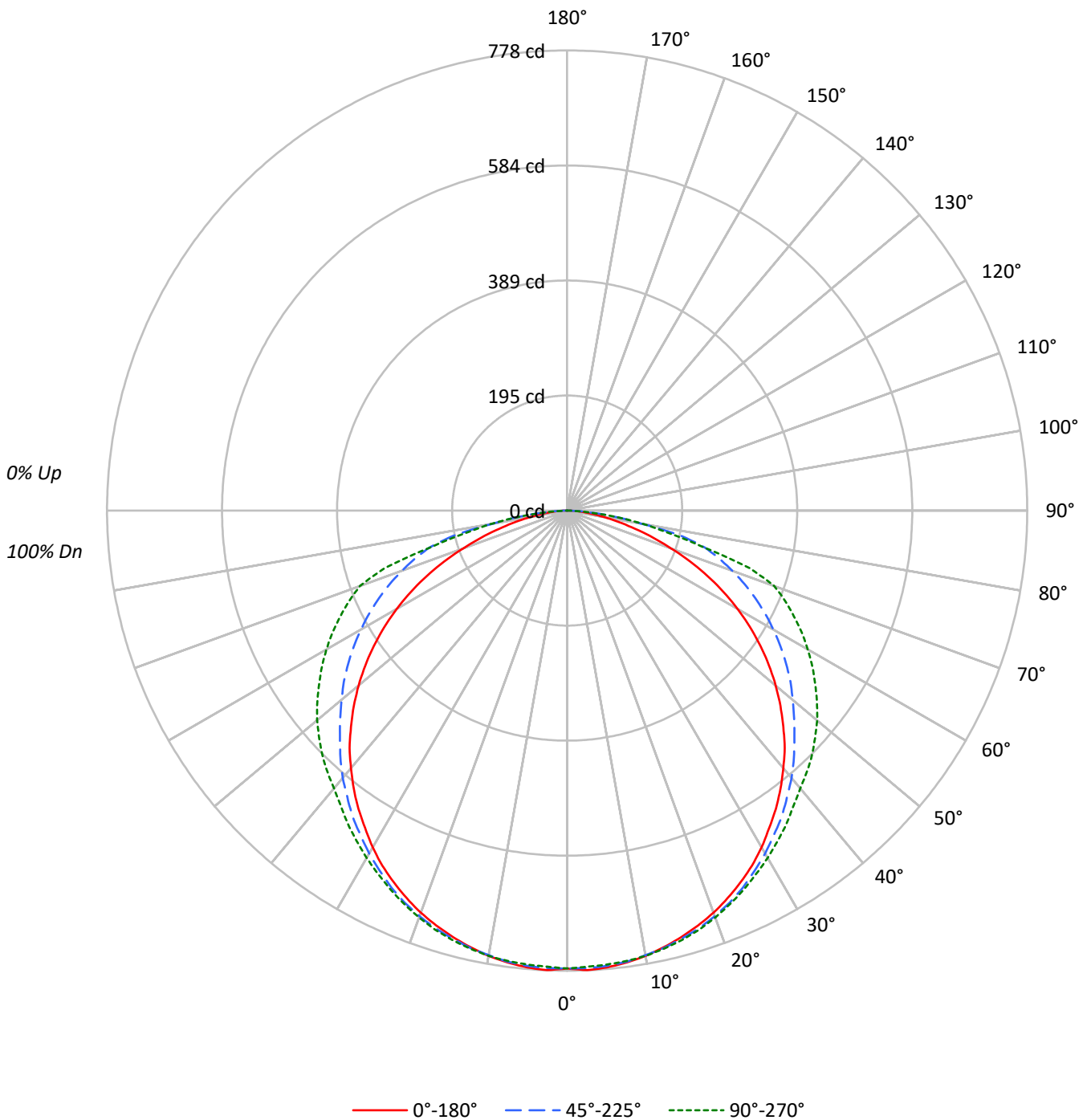
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1042	1042	1042
5°	1047	1044	1041
10°	1044	1043	1044
15°	1040	1043	1047
20°	1036	1045	1048
25°	1030	1044	1049
30°	1022	1040	1053
35°	1011	1039	1062
40°	999	1037	1077
45°	984	1034	1114
50°	964	1042	1155
55°	936	1060	1201
60°	896	1084	1265
65°	834	1117	1347
70°	738	1168	1466
75°	619	1250	1231
80°	494	987	1024
85°	389	668	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	3.0
10°-20°	211.3	8.7
20°-30°	322.8	13.2
30°-40°	394.6	16.2
40°-50°	422.4	17.3
50°-60°	405.1	16.6
60°-70°	342.1	14.0
70°-80°	218.6	9.0
80°-90°	51.7	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°	607.5	24.9
0°-40°	1002.1	41.0
0°-60°	1829.6	74.9
0°-90°	2442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	775	770	773	772	770	74
15°	746	744	749	751	751	211
25°	694	692	703	706	707	320
35°	616	620	632	641	647	385
45°	517	525	543	569	585	399
55°	399	412	452	493	512	356
65°	262	287	351	400	423	258
75°	119	170	240	245	237	128
85°	25	42	43	42	40	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.1	774.1	774.1	774.1	774.1
2.5°	777.7	772.9	774.1	774.1	771.7
5°	775.3	770.5	772.9	771.7	770.5
7.5°	770.5	766.9	769.3	769.3	768.1
10°	764.5	760.9	763.3	764.5	764.5
12.5°	756.1	753.7	757.3	757.3	758.5
15°	746.5	744.1	748.9	751.3	751.3
17.5°	735.7	734.5	740.5	741.7	742.9
20°	723.6	722.4	729.7	729.7	732.1
22.5°	709.2	708.0	717.6	717.6	720.0
25°	693.6	692.4	703.2	705.6	706.8
27.5°	676.8	675.6	686.4	690.0	692.4
30°	657.5	657.5	669.6	674.4	678.0
32.5°	635.9	639.5	650.3	657.5	662.3
35°	615.5	620.3	632.3	640.7	646.7
37.5°	592.6	597.4	610.7	621.5	628.7
40°	568.6	574.6	590.2	602.2	613.1
42.5°	544.5	550.5	567.4	585.4	599.8
45°	516.9	525.3	543.3	568.6	585.4
47.5°	489.2	497.7	520.5	551.8	568.6
50°	460.4	470.0	497.7	533.7	551.8
52.5°	430.3	441.2	476.0	514.5	532.5
55°	399.1	412.3	452.0	492.8	512.1
57.5°	366.6	381.1	427.9	471.2	491.6
60°	333.0	351.0	402.7	448.4	470.0
62.5°	298.1	319.8	377.5	424.3	447.2
65°	262.1	287.3	351.0	400.3	423.1
67.5°	224.8	258.4	324.6	376.2	399.1
70°	187.5	227.2	296.9	349.8	372.6
72.5°	152.7	198.3	269.3	318.5	323.4
75°	119.0	169.5	240.4	245.2	236.8
77.5°	89.0	140.6	198.3	176.7	175.5
80°	63.7	113.0	127.4	131.0	132.2
82.5°	42.1	85.3	82.9	85.3	84.1
85°	25.2	42.1	43.3	42.1	39.7
87.5°	12.0	15.6	12.0	10.8	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)