

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: P263880

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263880
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-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2240.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

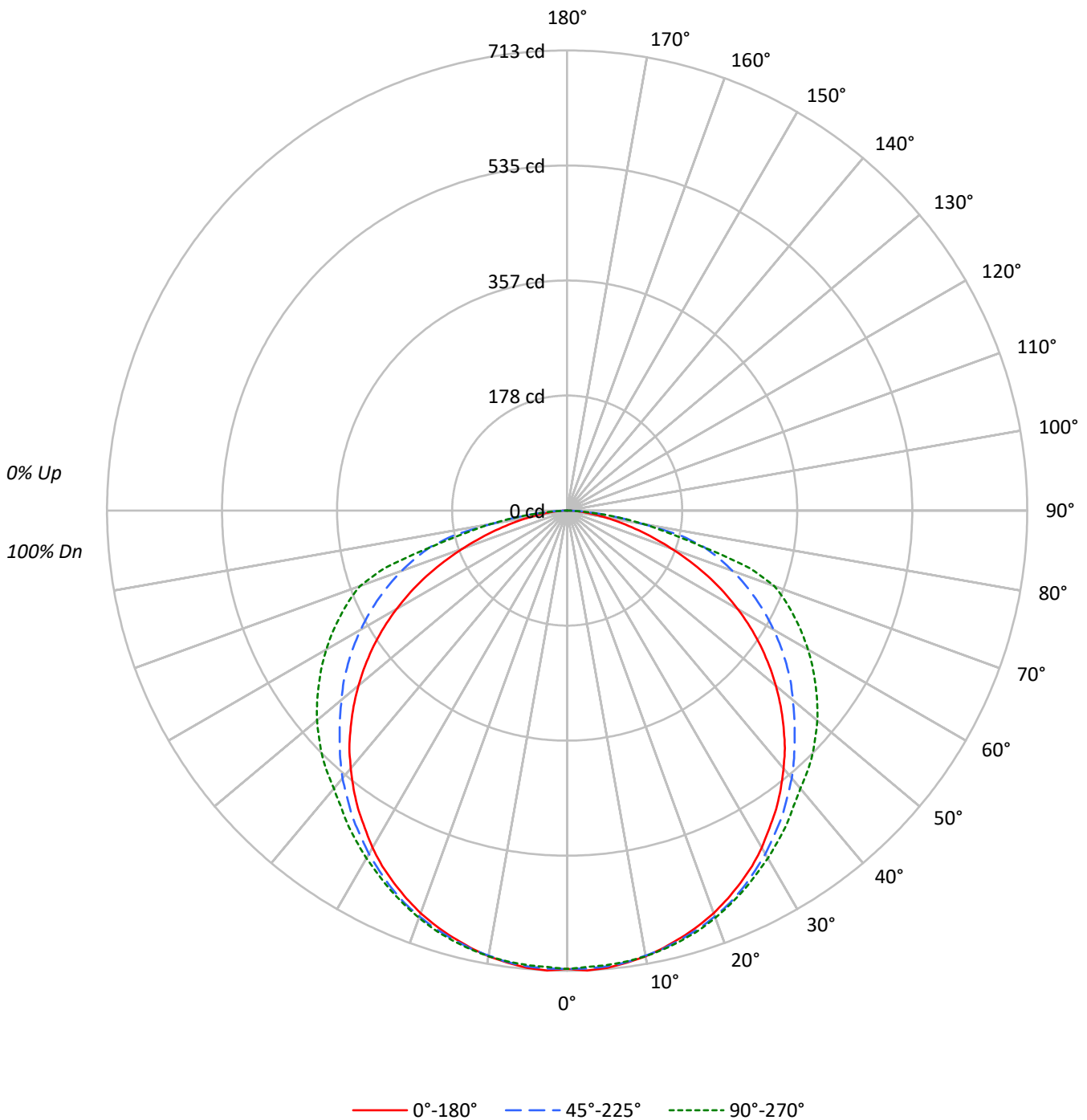
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	955	955	955
5°	961	958	955
10°	958	957	958
15°	954	957	960
20°	950	958	961
25°	944	958	963
30°	937	954	966
35°	927	953	974
40°	916	951	988
45°	902	948	1022
50°	884	956	1059
55°	859	973	1102
60°	822	994	1160
65°	765	1025	1236
70°	677	1072	1345
75°	568	1146	1129
80°	453	906	940
85°	358	613	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.0
10°-20°	193.8	8.7
20°-30°	296.1	13.2
30°-40°	362.0	16.2
40°-50°	387.4	17.3
50°-60°	371.6	16.6
60°-70°	313.8	14.0
70°-80°	200.5	9.0
80°-90°	47.4	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°	557.2	24.9
0°-40°	919.2	41.0
0°-60°	1678.2	74.9
0°-90°	2240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	711	707	709	708	707	68
15°	685	682	687	689	689	193
25°	636	635	645	647	648	293
35°	565	569	580	588	593	353
45°	474	482	498	522	537	366
55°	366	378	415	452	470	327
65°	240	264	322	367	388	237
75°	109	156	220	225	217	118
85°	23	39	40	39	36	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	710.1	710.1	710.1	710.1	710.1
2.5°	713.4	709.0	710.1	710.1	707.9
5°	711.2	706.8	709.0	707.9	706.8
7.5°	706.8	703.5	705.7	705.7	704.6
10°	701.3	698.0	700.2	701.3	701.3
12.5°	693.6	691.4	694.7	694.7	695.8
15°	684.7	682.5	686.9	689.1	689.1
17.5°	674.8	673.7	679.2	680.3	681.4
20°	663.8	662.7	669.3	669.3	671.5
22.5°	650.6	649.5	658.3	658.3	660.5
25°	636.2	635.1	645.0	647.2	648.4
27.5°	620.8	619.7	629.6	632.9	635.1
30°	603.1	603.1	614.2	618.6	621.9
32.5°	583.3	586.6	596.5	603.1	607.6
35°	564.6	569.0	580.0	587.7	593.2
37.5°	543.6	548.0	560.1	570.1	576.7
40°	521.5	527.1	541.4	552.4	562.3
42.5°	499.5	505.0	520.4	537.0	550.2
45°	474.1	481.9	498.4	521.5	537.0
47.5°	448.8	456.5	477.4	506.1	521.5
50°	422.3	431.1	456.5	489.6	506.1
52.5°	394.7	404.7	436.6	471.9	488.5
55°	366.1	378.2	414.6	452.1	469.7
57.5°	336.3	349.5	392.5	432.2	451.0
60°	305.4	322.0	369.4	411.3	431.1
62.5°	273.5	293.3	346.2	389.2	410.2
65°	240.4	263.5	322.0	367.2	388.1
67.5°	206.2	237.1	297.7	345.1	366.1
70°	172.0	208.4	272.4	320.9	341.8
72.5°	140.0	181.9	247.0	292.2	296.6
75°	109.2	155.5	220.5	224.9	217.2
77.5°	81.6	129.0	181.9	162.1	161.0
80°	58.4	103.6	116.9	120.2	121.3
82.5°	38.6	78.3	76.1	78.3	77.2
85°	23.2	38.6	39.7	38.6	36.4
87.5°	11.0	14.3	11.0	9.9	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)