

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: P263879

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263879
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-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: 2184.0 lumens
Efficiency: N/A
Efficacy: 83.0 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

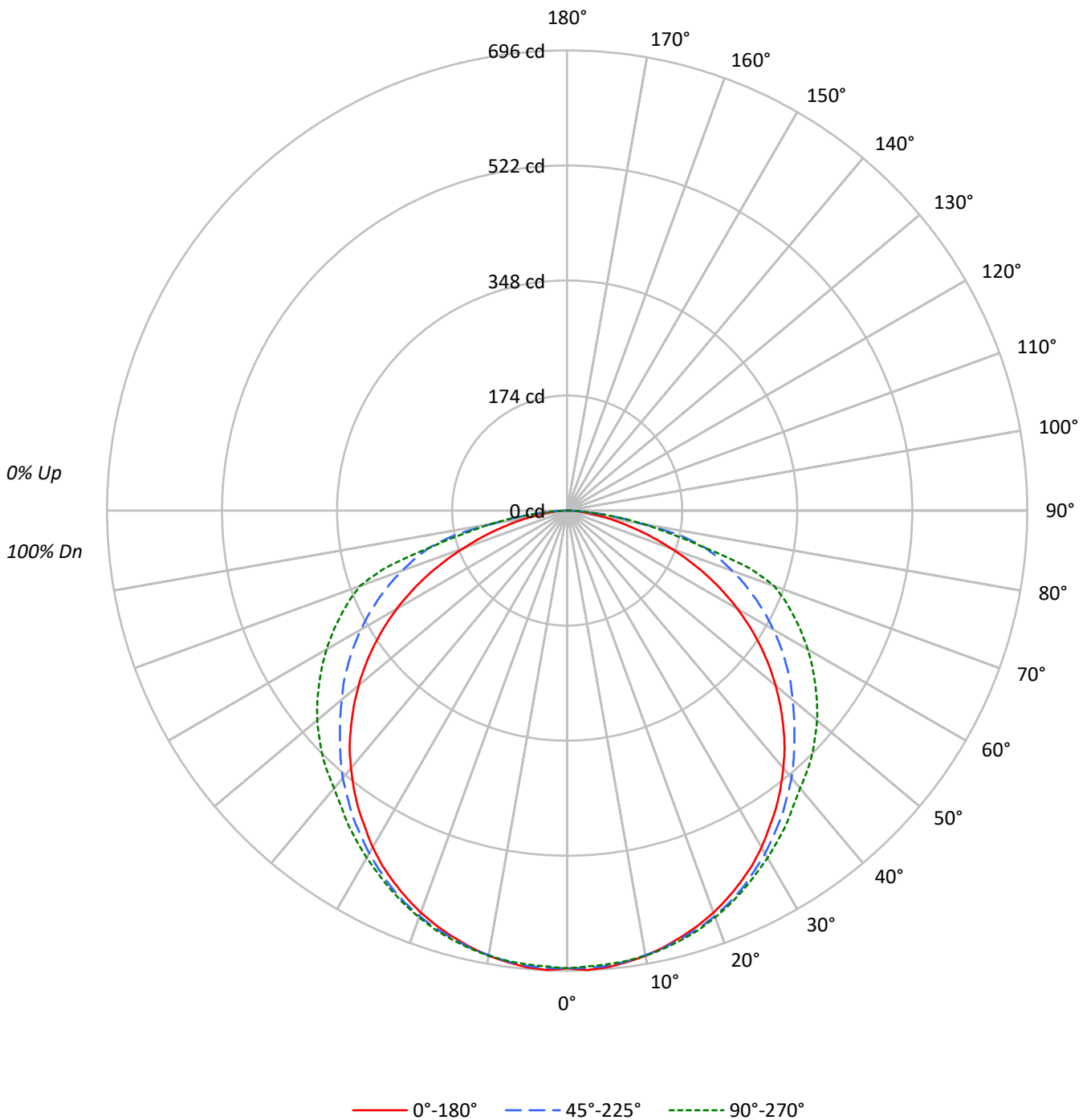
Input Watts (W): 26.319
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	931	931	931
5°	937	934	931
10°	934	933	934
15°	930	933	936
20°	927	934	937
25°	921	934	938
30°	914	930	942
35°	904	929	950
40°	893	927	963
45°	880	925	996
50°	862	932	1033
55°	837	948	1074
60°	801	969	1131
65°	746	999	1205
70°	660	1044	1311
75°	553	1118	1101
80°	442	883	917
85°	349	597	548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.0
10°-20°	189.0	8.7
20°-30°	288.7	13.2
30°-40°	352.9	16.2
40°-50°	377.8	17.3
50°-60°	362.3	16.6
60°-70°	305.9	14.0
70°-80°	195.5	9.0
80°-90°	46.2	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°	543.3	24.9
0°-40°	896.2	41.0
0°-60°	1636.3	74.9
0°-90°	2184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	693	689	691	690	689	66
15°	668	666	670	672	672	188
25°	620	619	629	631	632	286
35°	550	555	566	573	578	344
45°	462	470	486	508	524	357
55°	357	369	404	441	458	319
65°	234	257	314	358	378	231
75°	106	152	215	219	212	115
85°	23	38	39	38	36	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.3	692.3	692.3	692.3	692.3
2.5°	695.6	691.3	692.3	692.3	690.2
5°	693.4	689.1	691.3	690.2	689.1
7.5°	689.1	685.9	688.0	688.0	687.0
10°	683.7	680.5	682.7	683.7	683.7
12.5°	676.2	674.1	677.3	677.3	678.4
15°	667.6	665.5	669.8	671.9	671.9
17.5°	657.9	656.9	662.2	663.3	664.4
20°	647.2	646.1	652.6	652.6	654.7
22.5°	634.3	633.2	641.8	641.8	644.0
25°	620.3	619.2	628.9	631.1	632.1
27.5°	605.3	604.2	613.9	617.1	619.2
30°	588.1	588.1	598.8	603.1	606.3
32.5°	568.7	571.9	581.6	588.1	592.4
35°	550.4	554.7	565.5	573.0	578.4
37.5°	530.0	534.3	546.1	555.8	562.3
40°	508.5	513.9	527.9	538.6	548.3
42.5°	487.0	492.4	507.4	523.6	536.5
45°	462.3	469.8	485.9	508.5	523.6
47.5°	437.6	445.1	465.5	493.5	508.5
50°	411.8	420.4	445.1	477.3	493.5
52.5°	384.9	394.6	425.7	460.1	476.3
55°	356.9	368.7	404.2	440.8	458.0
57.5°	327.9	340.8	382.7	421.4	439.7
60°	297.8	313.9	360.1	401.0	420.4
62.5°	266.6	286.0	337.6	379.5	399.9
65°	234.4	256.9	313.9	358.0	378.4
67.5°	201.0	231.1	290.3	336.5	356.9
70°	167.7	203.2	265.5	312.8	333.3
72.5°	136.5	177.4	240.8	284.9	289.2
75°	106.4	151.6	215.0	219.3	211.8
77.5°	79.6	125.8	177.4	158.0	157.0
80°	57.0	101.1	114.0	117.2	118.3
82.5°	37.6	76.3	74.2	76.3	75.3
85°	22.6	37.6	38.7	37.6	35.5
87.5°	10.8	14.0	10.8	9.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)