

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: P276982

Luminaire Tested: **24CZ2-35-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2136.5 lumens
Efficiency: N/A
Efficacy: 82.6 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

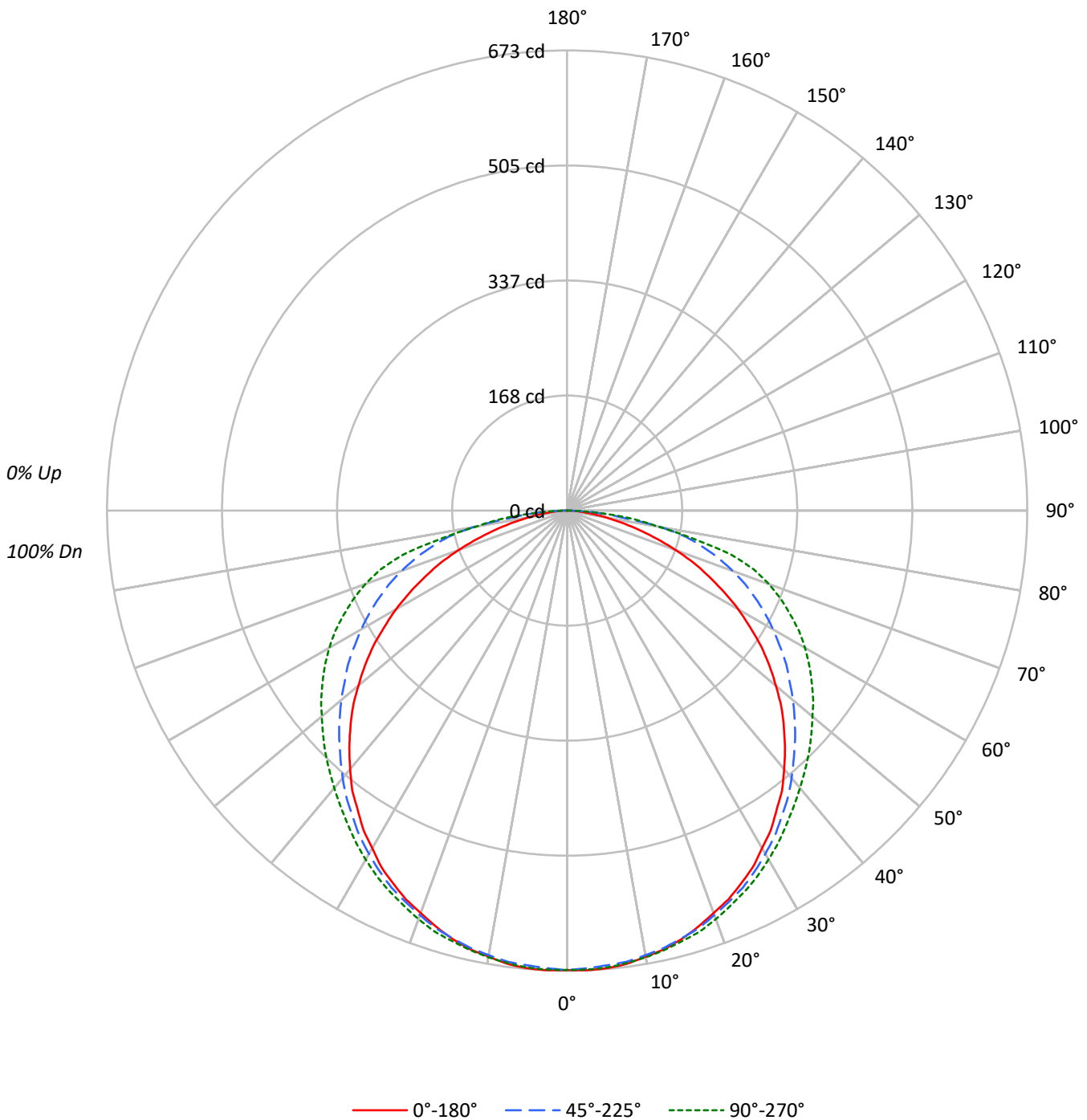
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	904	904	904
5°	907	902	906
10°	905	902	906
15°	903	902	908
20°	897	901	910
25°	894	903	912
30°	886	901	915
35°	877	898	919
40°	867	897	931
45°	853	897	952
50°	834	903	980
55°	813	917	1024
60°	779	935	1081
65°	729	968	1147
70°	663	1013	1234
75°	562	1069	1289
80°	443	1075	1043
85°	327	818	915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	3.0
10°-20°	183.4	8.6
20°-30°	280.5	13.1
30°-40°	342.9	16.0
40°-50°	365.5	17.1
50°-60°	349.4	16.4
60°-70°	296.0	13.9
70°-80°	198.9	9.3
80°-90°	56.1	2.6
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°	527.6	24.7
0°-40°	870.5	40.7
0°-60°	1585.4	74.2
0°-90°	2136.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2136.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	672	671	668	671	671	64
15°	649	649	648	653	652	183
25°	602	604	608	614	615	277
35°	534	538	547	557	560	335
45°	448	456	472	492	500	346
55°	346	359	391	422	437	309
65°	229	252	304	344	360	227
75°	108	147	206	241	248	116
85°	21	43	53	57	59	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.9	671.9	671.9	671.9	671.9
2.5°	672.9	672.9	669.8	671.9	671.9
5°	671.9	670.8	667.6	670.8	670.8
7.5°	668.7	667.6	665.5	668.7	667.6
10°	662.3	662.3	660.2	663.4	663.4
12.5°	657.0	656.0	654.9	659.2	658.1
15°	648.6	648.6	647.5	652.8	651.7
17.5°	638.0	639.0	640.1	644.3	645.4
20°	626.3	628.4	629.5	635.8	635.8
22.5°	615.7	616.8	618.9	625.2	625.2
25°	601.9	604.0	608.3	613.6	614.6
27.5°	588.2	589.2	594.5	601.9	603.0
30°	570.1	573.3	579.7	588.2	589.2
32.5°	554.2	557.4	564.8	573.3	575.4
35°	534.1	538.3	546.8	557.4	559.5
37.5°	516.1	519.3	529.9	541.5	544.7
40°	493.8	500.2	510.8	524.6	529.9
42.5°	471.6	477.9	490.7	508.7	515.0
45°	448.3	455.7	471.6	491.7	500.2
47.5°	425.0	433.4	451.4	474.8	484.3
50°	398.5	409.1	431.3	457.8	468.4
52.5°	373.0	385.7	410.1	439.8	453.6
55°	346.5	359.2	391.0	421.8	436.6
57.5°	316.9	333.8	368.8	403.8	419.7
60°	289.3	305.2	347.6	385.7	401.6
62.5°	259.6	280.8	326.4	366.7	382.6
65°	228.9	252.2	304.1	344.4	360.3
67.5°	201.3	226.8	281.9	322.2	338.1
70°	168.5	200.3	257.5	297.8	313.7
72.5°	137.8	172.7	232.1	271.3	286.1
75°	108.1	147.3	205.6	240.6	248.0
77.5°	80.5	121.9	178.0	192.9	187.6
80°	57.2	97.5	138.8	131.4	134.6
82.5°	37.1	74.2	85.8	97.5	100.7
85°	21.2	43.4	53.0	57.2	59.3
87.5°	9.5	15.9	21.2	21.2	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)