

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: P277034

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277034
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: 24CZ2-35HE-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2125.1 lumens
Efficiency: N/A
Efficacy: 84.0 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

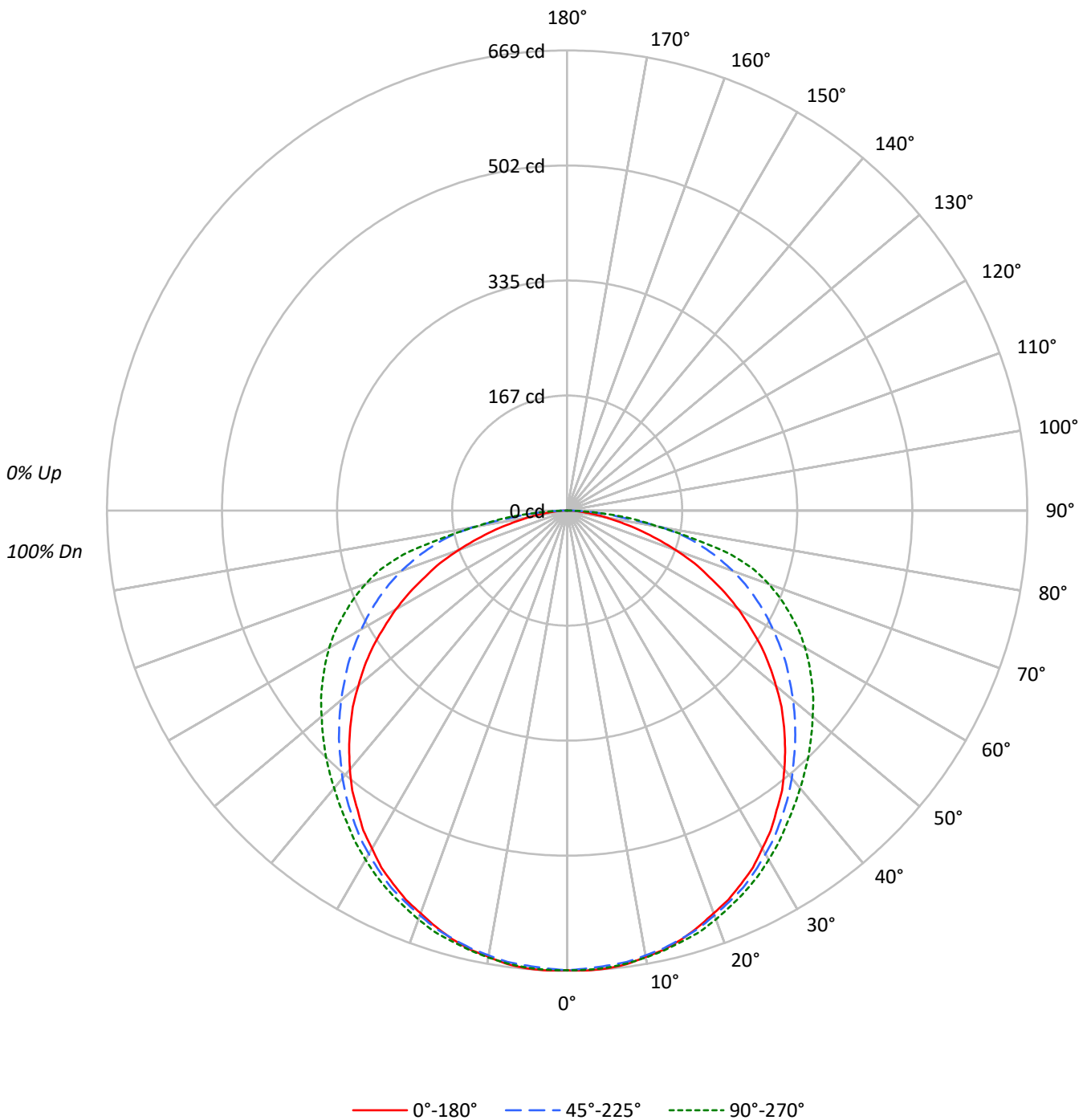
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	899	899	899
5°	903	897	901
10°	900	897	901
15°	899	897	903
20°	892	896	905
25°	889	898	908
30°	881	896	911
35°	873	893	914
40°	863	892	926
45°	848	893	947
50°	830	898	975
55°	809	912	1019
60°	774	930	1075
65°	725	963	1141
70°	659	1007	1227
75°	559	1063	1282
80°	441	1070	1038
85°	326	814	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.0
10°-20°	182.4	8.6
20°-30°	279.0	13.1
30°-40°	341.1	16.0
40°-50°	363.5	17.1
50°-60°	347.6	16.4
60°-70°	294.4	13.9
70°-80°	197.9	9.3
80°-90°	55.8	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°	524.8	24.7
0°-40°	865.9	40.7
0°-60°	1576.9	74.2
0°-90°	2125.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	668	667	664	667	667	63
15°	645	645	644	649	648	182
25°	599	601	605	610	611	276
35°	531	536	544	554	556	333
45°	446	453	469	489	498	344
55°	345	357	389	420	434	307
65°	228	251	302	343	358	226
75°	108	146	204	239	247	115
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°	668.3	668.3	668.3	668.3	668.3
2.5°	669.3	669.3	666.2	668.3	668.3
5°	668.3	667.2	664.1	667.2	667.2
7.5°	665.1	664.1	661.9	665.1	664.1
10°	658.8	658.8	656.7	659.8	659.8
12.5°	653.5	652.5	651.4	655.6	654.6
15°	645.1	645.1	644.0	649.3	648.2
17.5°	634.5	635.6	636.6	640.9	641.9
20°	622.9	625.1	626.1	632.4	632.4
22.5°	612.4	613.5	615.6	621.9	621.9
25°	598.7	600.8	605.0	610.3	611.4
27.5°	585.0	586.1	591.3	598.7	599.8
30°	567.1	570.2	576.6	585.0	586.1
32.5°	551.3	554.4	561.8	570.2	572.4
35°	531.2	535.5	543.9	554.4	556.5
37.5°	513.3	516.5	527.0	538.6	541.8
40°	491.2	497.5	508.1	521.8	527.0
42.5°	469.1	475.4	488.0	505.9	512.3
45°	445.9	453.2	469.1	489.1	497.5
47.5°	422.7	431.1	449.0	472.2	481.7
50°	396.3	406.9	429.0	455.4	465.9
52.5°	371.0	383.7	407.9	437.4	451.1
55°	344.7	357.3	388.9	419.5	434.3
57.5°	315.2	332.0	366.8	401.6	417.4
60°	287.8	303.6	345.7	383.7	399.5
62.5°	258.2	279.3	324.6	364.7	380.5
65°	227.7	250.9	302.5	342.6	358.4
67.5°	200.3	225.6	280.4	320.4	336.2
70°	167.6	199.2	256.1	296.2	312.0
72.5°	137.0	171.8	230.8	269.8	284.6
75°	107.5	146.5	204.5	239.3	246.6
77.5°	80.1	121.2	177.1	191.8	186.6
80°	56.9	97.0	138.1	130.7	133.9
82.5°	36.9	73.8	85.4	97.0	100.1
85°	21.1	43.2	52.7	56.9	59.0
87.5°	9.5	15.8	21.1	21.1	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)