

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: P276893

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276893
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-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2186.8 lumens
Efficiency: N/A
Efficacy: 90.1 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

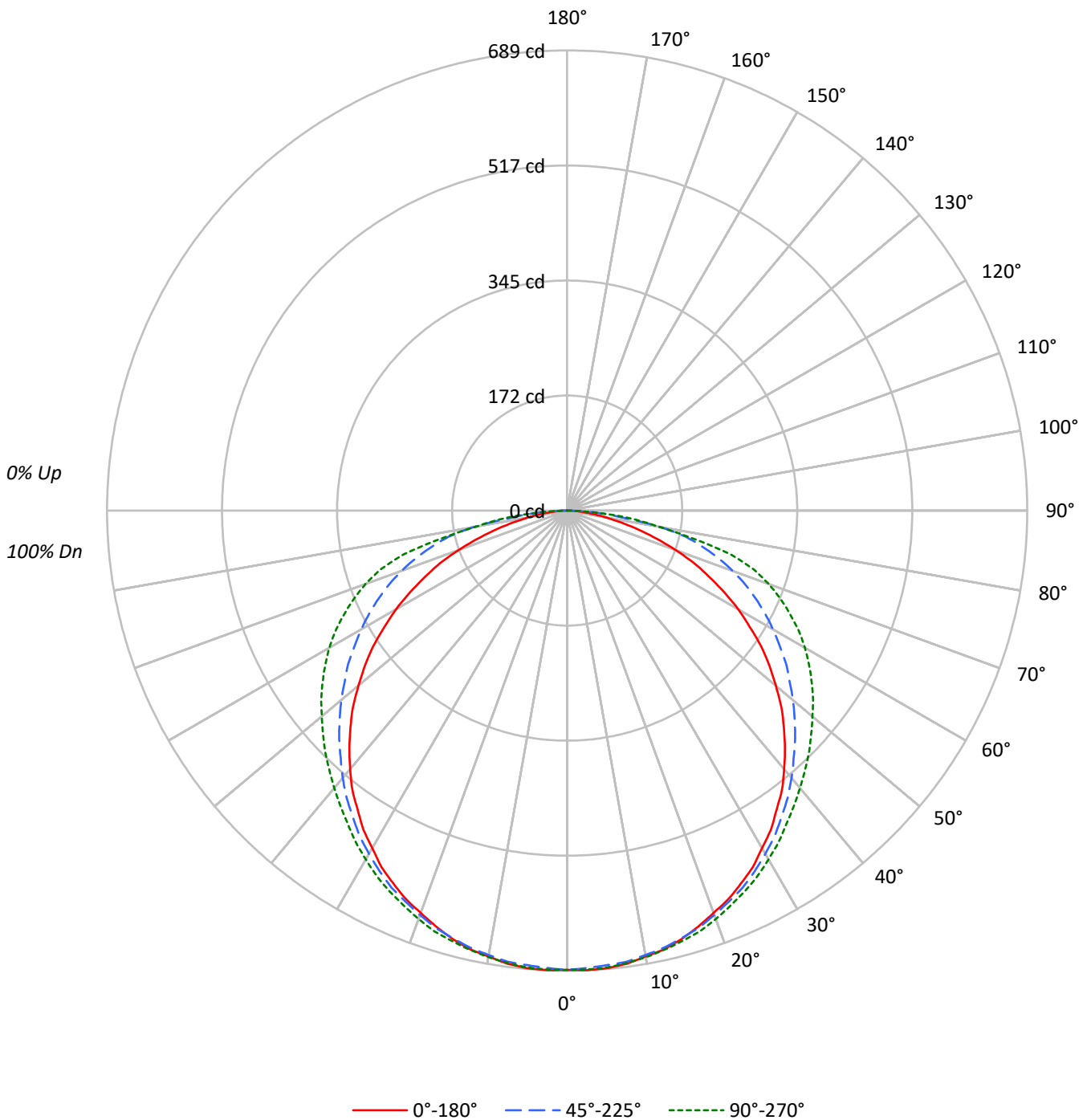
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	925	925	925
5°	929	923	927
10°	926	923	928
15°	925	923	929
20°	918	923	932
25°	915	924	934
30°	907	922	937
35°	898	919	941
40°	888	918	953
45°	873	918	974
50°	854	924	1003
55°	832	939	1048
60°	797	957	1106
65°	746	991	1174
70°	679	1037	1263
75°	575	1094	1319
80°	454	1101	1068
85°	335	837	937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.0
10°-20°	187.7	8.6
20°-30°	287.1	13.1
30°-40°	351.0	16.0
40°-50°	374.1	17.1
50°-60°	357.7	16.4
60°-70°	303.0	13.9
70°-80°	203.6	9.3
80°-90°	57.4	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°	540.1	24.7
0°-40°	891.0	40.7
0°-60°	1622.7	74.2
0°-90°	2186.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2186.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	688	687	683	687	687	65
15°	664	664	663	668	667	187
25°	616	618	623	628	629	284
35°	547	551	560	570	573	342
45°	459	466	483	503	512	354
55°	355	368	400	432	447	316
65°	234	258	311	352	369	233
75°	111	151	210	246	254	118
85°	22	44	54	59	61	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.7	687.7	687.7	687.7	687.7
2.5°	688.8	688.8	685.5	687.7	687.7
5°	687.7	686.6	683.3	686.6	686.6
7.5°	684.4	683.3	681.2	684.4	683.3
10°	677.9	677.9	675.7	679.0	679.0
12.5°	672.5	671.4	670.3	674.7	673.6
15°	663.8	663.8	662.7	668.2	667.1
17.5°	653.0	654.1	655.1	659.5	660.6
20°	641.0	643.2	644.3	650.8	650.8
22.5°	630.2	631.3	633.4	640.0	640.0
25°	616.1	618.3	622.6	628.0	629.1
27.5°	602.0	603.1	608.5	616.1	617.2
30°	583.5	586.8	593.3	602.0	603.1
32.5°	567.3	570.5	578.1	586.8	589.0
35°	546.7	551.0	559.7	570.5	572.7
37.5°	528.2	531.5	542.3	554.3	557.5
40°	505.5	512.0	522.8	536.9	542.3
42.5°	482.7	489.2	502.2	520.6	527.1
45°	458.8	466.4	482.7	503.3	512.0
47.5°	435.0	443.6	462.1	485.9	495.7
50°	407.8	418.7	441.5	468.6	479.4
52.5°	381.8	394.8	419.8	450.1	464.2
55°	354.7	367.7	400.2	431.7	446.9
57.5°	324.3	341.7	377.5	413.3	429.5
60°	296.1	312.4	355.8	394.8	411.1
62.5°	265.7	287.4	334.1	375.3	391.6
65°	234.3	258.2	311.3	352.5	368.8
67.5°	206.1	232.1	288.5	329.7	346.0
70°	172.5	205.0	263.6	304.8	321.1
72.5°	141.0	176.8	237.5	277.7	292.9
75°	110.6	150.8	210.4	246.2	253.8
77.5°	82.4	124.7	182.2	197.4	192.0
80°	58.6	99.8	142.1	134.5	137.8
82.5°	38.0	75.9	87.9	99.8	103.0
85°	21.7	44.5	54.2	58.6	60.7
87.5°	9.8	16.3	21.7	21.7	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)