

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: P275698

Luminaire Tested: **14CZ2-35-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

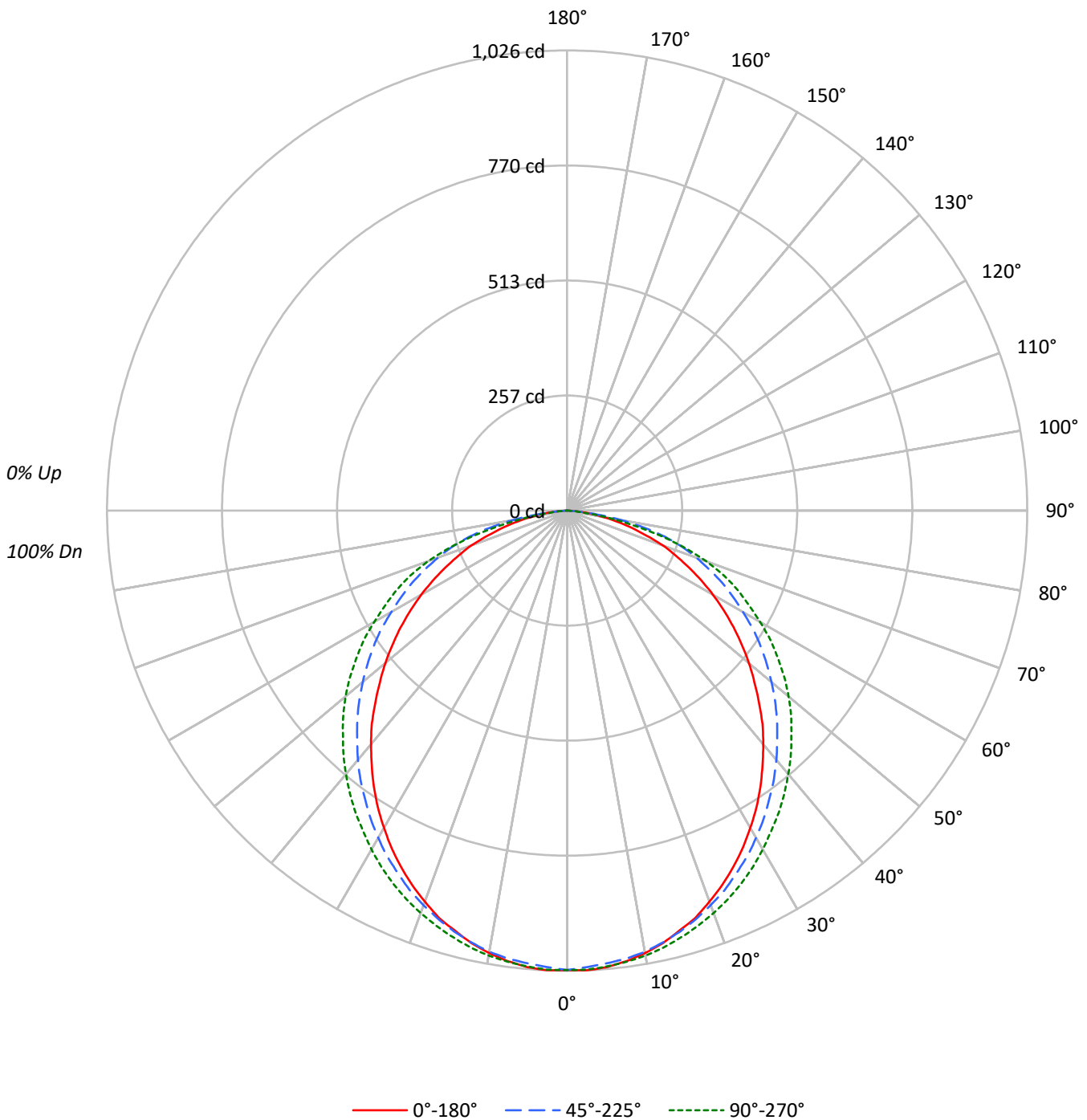
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2757	2757	2757
5°	2760	2737	2756
10°	2737	2729	2753
15°	2700	2708	2743
20°	2657	2681	2734
25°	2603	2649	2725
30°	2538	2618	2710
35°	2468	2580	2702
40°	2389	2549	2694
45°	2302	2518	2691
50°	2216	2490	2699
55°	2123	2470	2691
60°	2022	2435	2673
65°	1903	2429	2673
70°	1792	2407	2597
75°	1553	2353	2219
80°	1257	1897	1477
85°	834	658	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.4
10°-20°	275.3	9.6
20°-30°	413.0	14.4
30°-40°	492.6	17.2
40°-50°	509.3	17.7
50°-60°	465.0	16.2
60°-70°	365.9	12.7
70°-80°	213.0	7.4
80°-90°	39.2	1.4
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°	785.0	27.4
0°-40°	1277.6	44.5
0°-60°	2251.9	78.5
0°-90°	2870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1022	1019	1013	1022	1020	97
15°	969	970	972	985	985	273
25°	877	881	892	914	918	404
35°	751	761	786	815	822	470
45°	605	625	662	699	707	467
55°	452	477	526	565	574	405
65°	299	330	381	411	420	297
75°	149	185	226	222	213	159
85°	27	38	21	17	14	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.5	1024.5	1024.5	1024.5	1024.5
2.5°	1026.0	1023.1	1018.9	1026.0	1024.5
5°	1021.7	1018.9	1013.2	1021.7	1020.3
7.5°	1013.2	1010.3	1007.5	1016.0	1014.6
10°	1001.8	1000.4	998.9	1008.9	1007.5
12.5°	987.5	987.5	986.1	997.5	997.5
15°	969.0	970.5	971.9	984.7	984.7
17.5°	952.0	950.5	954.8	969.0	970.5
20°	927.8	930.6	936.3	953.4	954.8
22.5°	903.6	906.4	916.4	933.5	937.7
25°	876.6	880.8	892.2	913.6	917.8
27.5°	848.1	853.8	869.4	892.2	896.5
30°	816.8	825.3	842.4	868.0	872.3
32.5°	785.5	794.0	815.4	841.0	846.7
35°	751.3	761.3	785.5	815.4	822.5
37.5°	715.8	728.6	757.0	786.9	795.4
40°	680.2	694.4	725.7	757.0	767.0
42.5°	644.6	658.8	693.0	728.6	738.5
45°	604.8	624.7	661.7	698.7	707.2
47.5°	566.3	587.7	629.0	666.0	677.3
50°	529.3	550.7	594.8	633.2	644.6
52.5°	490.9	513.7	560.7	600.5	610.5
55°	452.5	476.7	526.5	564.9	573.5
57.5°	414.1	439.7	490.9	527.9	537.9
60°	375.7	402.7	452.5	489.5	496.6
62.5°	337.2	365.7	416.9	449.7	456.8
65°	298.8	330.1	381.4	411.2	419.8
67.5°	261.8	293.1	342.9	371.4	378.5
70°	227.7	256.1	305.9	327.3	330.1
72.5°	185.0	220.6	268.9	280.3	273.2
75°	149.4	185.0	226.3	222.0	213.4
77.5°	113.8	149.4	176.4	162.2	150.8
80°	81.1	116.7	122.4	101.0	95.3
82.5°	52.7	81.1	68.3	52.7	42.7
85°	27.0	38.4	21.3	17.1	14.2
87.5°	8.5	5.7	2.8	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)