

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: P258830

Luminaire Tested: **14CZ-LD5-25-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-25-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2216.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

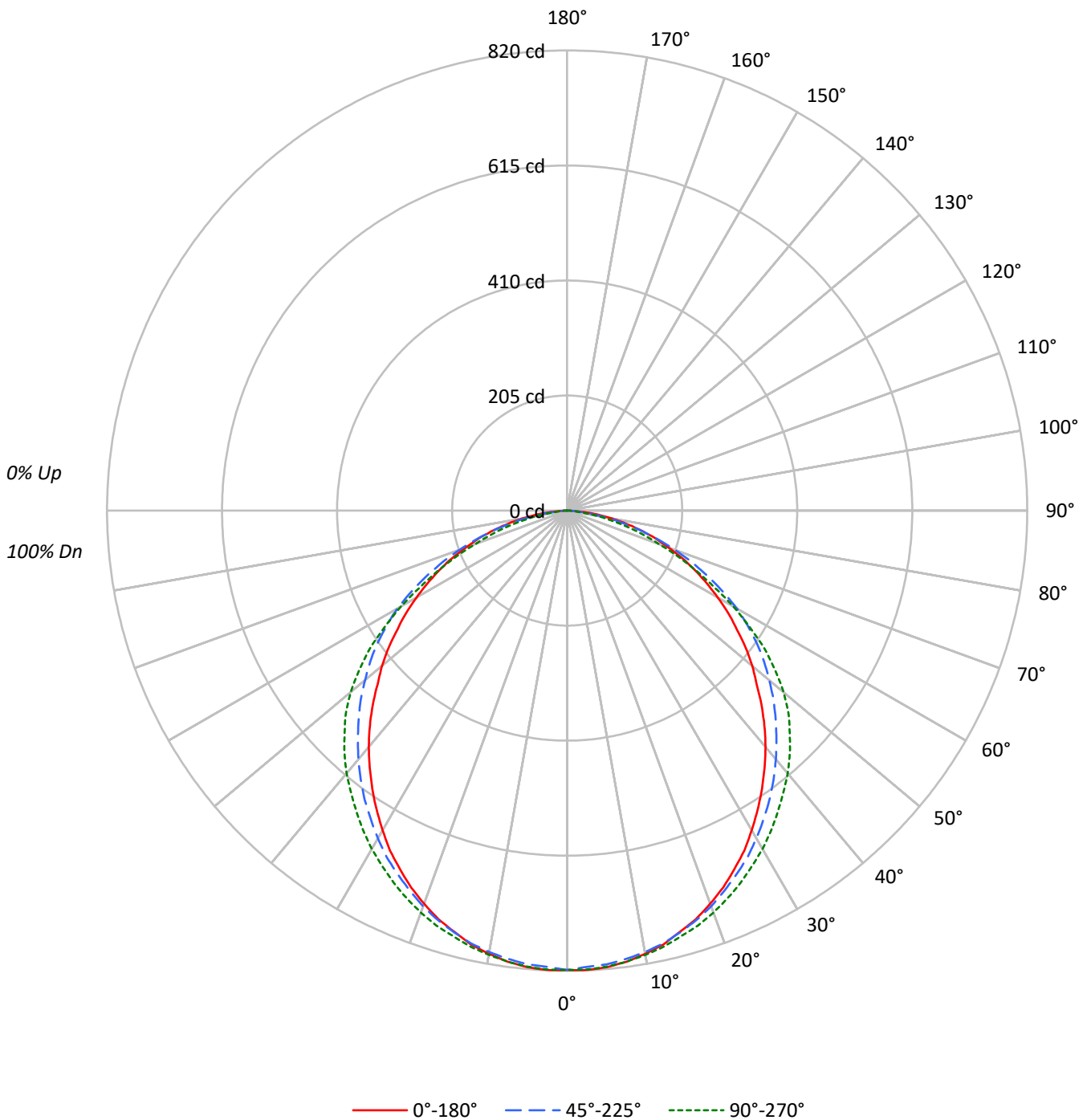
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2203	2203	2203
5°	2206	2193	2203
10°	2191	2183	2196
15°	2165	2168	2187
20°	2135	2149	2183
25°	2093	2123	2173
30°	2043	2096	2163
35°	1988	2066	2151
40°	1932	2033	2147
45°	1864	1999	2135
50°	1802	1968	2108
55°	1733	1937	2015
60°	1669	1882	1839
65°	1597	1761	1616
70°	1507	1600	1367
75°	1407	1386	1129
80°	1240	1071	826
85°	976	519	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.5
10°-20°	220.4	9.9
20°-30°	330.7	14.9
30°-40°	394.2	17.8
40°-50°	406.1	18.3
50°-60°	361.9	16.3
60°-70°	260.8	11.8
70°-80°	136.4	6.2
80°-90°	28.2	1.3
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°	628.4	28.4
0°-40°	1022.6	46.1
0°-60°	1790.7	80.8
0°-90°	2216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2216.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	817	815	812	817	816	77
15°	777	778	778	786	785	219
25°	705	709	715	729	732	325
35°	605	613	629	650	655	379
45°	490	501	525	555	561	378
55°	369	381	413	432	430	331
65°	251	260	276	264	254	248
75°	135	142	133	116	109	143
85°	32	28	17	15	15	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.6	818.6	818.6	818.6	818.6
2.5°	819.6	817.6	813.7	818.6	818.6
5°	816.6	814.6	811.7	816.6	815.6
7.5°	810.7	808.7	805.8	811.7	810.7
10°	801.8	800.8	798.8	804.8	803.8
12.5°	791.9	790.9	790.0	795.9	795.9
15°	777.1	778.1	778.1	786.0	785.0
17.5°	763.3	764.3	765.3	775.1	775.1
20°	745.5	746.5	750.5	761.3	762.3
22.5°	726.8	727.7	732.7	745.5	747.5
25°	705.0	709.0	714.9	728.7	731.7
27.5°	683.3	686.3	696.1	711.9	713.9
30°	657.6	663.6	674.4	692.2	696.1
32.5°	632.0	638.9	651.7	671.5	676.4
35°	605.3	613.2	629.0	649.7	654.7
37.5°	577.7	584.6	604.3	626.0	633.0
40°	550.0	556.9	578.6	603.3	611.2
42.5°	520.4	530.3	552.0	579.6	587.5
45°	489.8	500.6	525.3	554.9	560.9
47.5°	458.2	470.0	498.7	528.3	535.2
50°	430.5	441.4	470.0	498.7	503.6
52.5°	400.9	410.8	442.4	466.1	467.1
55°	369.3	381.2	412.8	431.5	429.5
57.5°	340.7	350.5	381.2	391.0	385.1
60°	310.1	318.9	349.6	350.5	341.7
62.5°	280.4	289.3	313.0	306.1	295.2
65°	250.8	259.7	276.5	263.6	253.8
67.5°	222.2	230.1	239.9	223.2	213.3
70°	191.6	202.4	203.4	183.7	173.8
72.5°	164.9	170.8	168.9	150.1	141.2
75°	135.3	142.2	133.3	115.5	108.6
77.5°	107.6	112.6	100.7	83.9	79.0
80°	80.0	82.9	69.1	56.3	53.3
82.5°	54.3	54.3	39.5	30.6	27.6
85°	31.6	27.6	16.8	14.8	14.8
87.5°	10.9	6.9	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)