

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: P258989

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1249.0 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

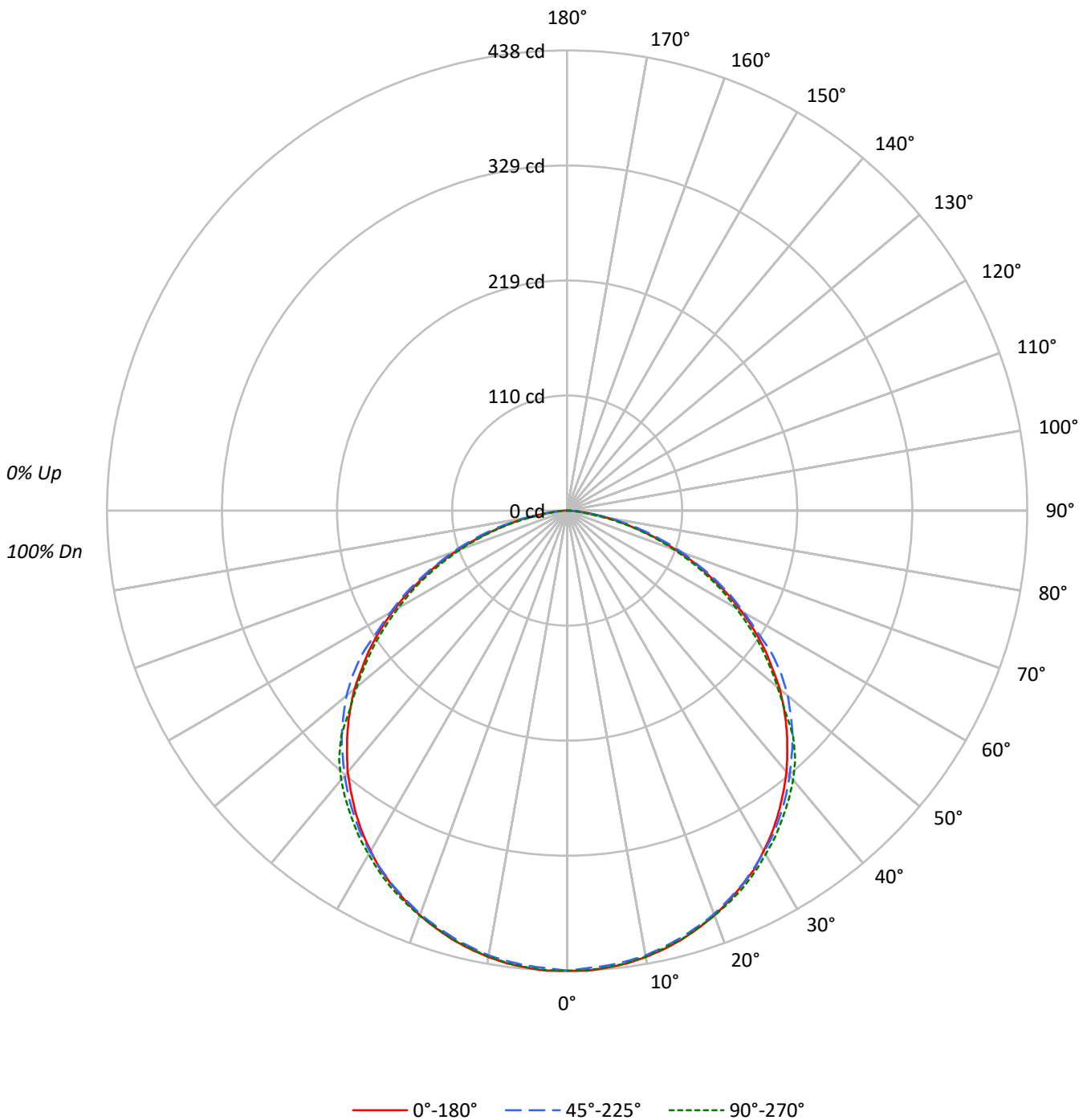
Input Watts (W): 15.531  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1179	1179	1179
5°	1180	1175	1179
10°	1179	1175	1178
15°	1177	1171	1176
20°	1174	1170	1175
25°	1169	1167	1176
30°	1162	1165	1174
35°	1153	1162	1174
40°	1141	1157	1175
45°	1125	1156	1157
50°	1106	1147	1094
55°	1075	1117	1054
60°	1030	1045	999
65°	964	990	939
70°	877	913	849
75°	732	800	719
80°	581	612	499
85°	377	327	290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.5	3.3
10°-20°	119.1	9.5
20°-30°	181.8	14.6
30°-40°	221.7	17.7
40°-50°	232.1	18.6
50°-60°	206.5	16.5
60°-70°	152.3	12.2
70°-80°	78.7	6.3
80°-90°	15.3	1.2
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°	342.4	27.4
0°-40°	564.0	45.2
0°-60°	1002.6	80.3
0°-90°	1249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1249.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	438	438	438	438	438	
5°	437	436	435	436	436	42
15°	423	422	420	422	422	119
25°	394	394	393	396	396	182
35°	351	351	354	358	357	219
45°	296	298	304	306	304	228
55°	229	234	238	228	225	204
65°	151	162	156	150	147	150
75°	70	78	77	71	69	76
85°	12	13	11	10	9	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	438.0	438.0	438.0	438.0	438.0
2.5°	438.4	438.0	436.0	438.0	438.0
5°	436.8	436.4	434.8	436.4	436.4
7.5°	434.8	434.4	432.7	434.4	434.4
10°	431.5	431.1	429.9	431.5	431.1
12.5°	427.4	427.4	425.4	427.4	426.6
15°	422.6	422.2	420.5	422.2	422.2
17.5°	416.5	416.0	414.8	416.9	416.0
20°	409.9	409.5	408.7	410.8	410.3
22.5°	402.2	402.2	401.0	403.4	403.4
25°	393.7	393.7	393.2	396.1	396.1
27.5°	385.1	384.3	384.3	387.1	387.5
30°	374.1	374.1	374.9	378.2	377.8
32.5°	363.1	363.5	365.2	368.0	368.4
35°	350.9	351.3	353.8	357.8	357.4
37.5°	337.9	339.1	342.0	346.4	346.4
40°	324.9	325.7	329.3	334.2	334.6
42.5°	310.2	312.2	316.3	322.0	321.2
45°	295.5	297.6	303.7	306.5	304.1
47.5°	280.1	282.5	288.6	289.0	280.9
50°	264.2	267.1	274.0	265.8	261.4
52.5°	245.9	251.2	257.3	245.9	243.0
55°	229.2	234.1	238.1	228.0	224.7
57.5°	210.5	217.0	214.1	209.2	205.2
60°	191.3	198.3	194.2	189.3	185.6
62.5°	171.8	179.5	175.5	170.6	167.3
65°	151.4	162.0	155.5	150.2	147.4
67.5°	132.3	142.5	134.7	130.7	127.8
70°	111.5	120.1	116.0	110.7	107.9
72.5°	91.2	97.7	96.5	90.8	88.7
75°	70.4	77.8	76.9	70.8	69.2
77.5°	52.9	59.8	57.4	52.5	50.5
80°	37.5	41.9	39.5	33.8	32.2
82.5°	22.8	26.5	22.4	19.1	17.5
85°	12.2	13.4	10.6	9.8	9.4
87.5°	4.5	4.5	4.5	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)