

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: P259163

Luminaire Tested: **14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-25-SQP-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1244.0 lumens  
Efficiency: N/A  
Efficacy: 68.2 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

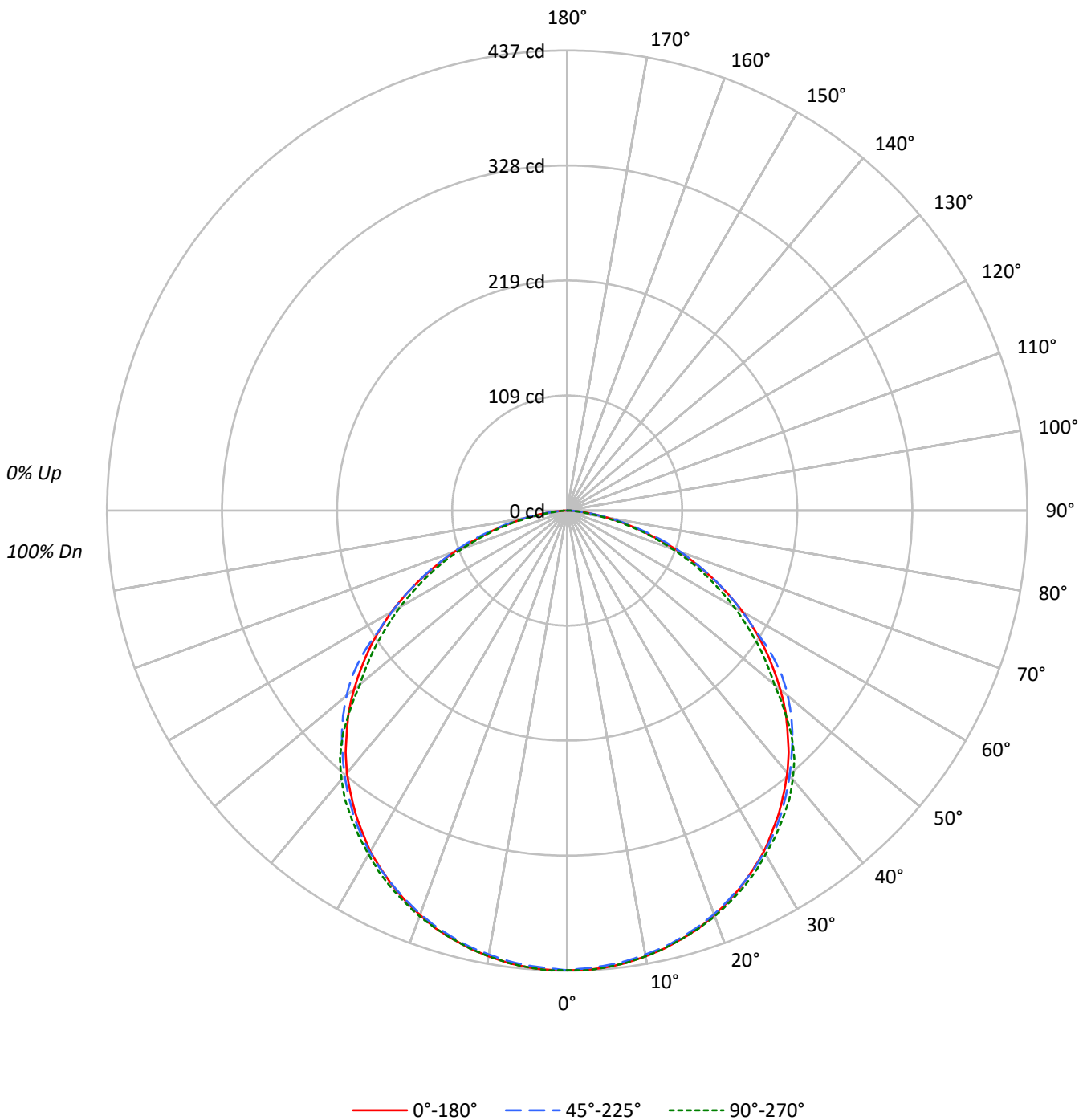
Input Watts (W): 18.228  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	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	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1175	1175	1175
5°	1176	1171	1176
10°	1174	1170	1174
15°	1173	1169	1173
20°	1170	1168	1174
25°	1166	1165	1173
30°	1161	1164	1172
35°	1152	1161	1172
40°	1143	1155	1171
45°	1126	1151	1147
50°	1106	1145	1076
55°	1077	1109	1036
60°	1037	1034	987
65°	971	977	923
70°	891	902	836
75°	750	784	714
80°	594	607	502
85°	389	340	287



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.3	3.3
10°-20°	118.8	9.6
20°-30°	181.4	14.6
30°-40°	221.4	17.8
40°-50°	231.5	18.6
50°-60°	204.9	16.5
60°-70°	150.9	12.1
70°-80°	78.1	6.3
80°-90°	15.6	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°	341.6	27.5
0°-40°	563.0	45.3
0°-60°	999.4	80.3
0°-90°	1244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	435	435	434	435	435	41
15°	421	421	420	421	421	119
25°	393	393	392	395	395	181
35°	351	351	354	357	357	219
45°	296	298	302	305	301	228
55°	230	234	236	224	221	205
65°	152	162	153	148	145	151
75°	72	77	75	71	69	77
85°	13	14	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°	436.5	436.5	436.5	436.5	436.5
2.5°	436.5	436.5	434.9	436.5	437.0
5°	435.3	435.3	433.6	435.3	435.3
7.5°	433.2	432.7	431.5	433.2	433.2
10°	429.8	429.8	428.1	430.2	429.8
12.5°	426.0	425.6	424.7	426.4	426.0
15°	421.0	421.0	419.7	421.4	421.0
17.5°	415.9	415.5	414.2	415.9	415.9
20°	408.7	408.3	407.9	409.6	410.0
22.5°	401.1	400.7	400.3	402.8	402.8
25°	392.7	392.7	392.3	394.8	395.2
27.5°	383.4	383.4	383.9	387.2	386.8
30°	373.8	373.8	374.6	377.1	377.1
32.5°	362.0	362.8	364.5	367.4	367.4
35°	350.6	351.4	353.5	356.9	356.9
37.5°	337.9	339.2	341.3	345.5	346.4
40°	325.3	326.1	328.7	333.3	333.3
42.5°	311.4	312.2	315.6	320.2	319.4
45°	295.8	298.3	302.5	305.1	301.3
47.5°	281.1	282.7	288.6	285.7	279.4
50°	264.2	267.6	273.5	262.9	257.0
52.5°	246.9	250.7	257.0	242.3	238.9
55°	229.6	234.3	236.4	224.2	220.8
57.5°	211.1	216.2	212.0	204.8	201.4
60°	192.6	198.5	192.1	185.4	183.3
62.5°	173.2	179.9	172.8	166.9	163.9
65°	152.5	161.8	153.4	147.5	145.0
67.5°	132.3	142.0	133.2	128.1	126.4
70°	113.3	118.8	114.6	109.6	106.2
72.5°	90.6	96.1	95.2	89.8	87.6
75°	72.1	77.1	75.4	70.8	68.7
77.5°	53.5	59.0	57.3	51.8	51.0
80°	38.3	42.1	39.2	34.1	32.4
82.5°	24.0	27.0	23.2	19.4	18.5
85°	12.6	13.5	11.0	9.7	9.3
87.5°	4.2	4.6	4.6	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)