

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: P259150

Luminaire Tested: **14CZ-LD5-44-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259150
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-LD5-44-SQP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2896.0 lumens
Efficiency: N/A
Efficacy: 79.4 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

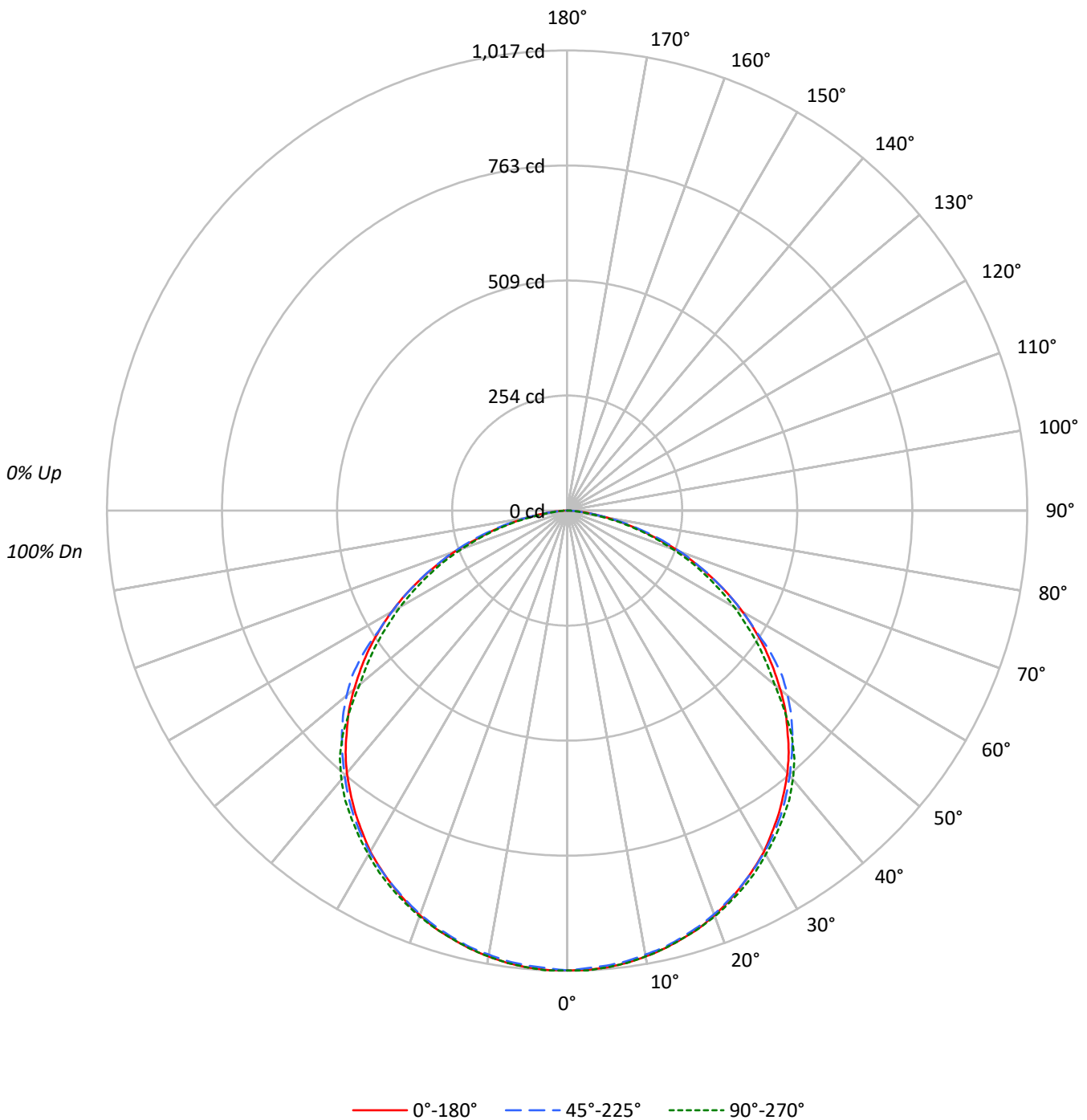
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44					44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2735	2735	2735
5°	2737	2727	2737
10°	2734	2723	2734
15°	2730	2722	2730
20°	2725	2719	2733
25°	2714	2712	2732
30°	2704	2710	2728
35°	2681	2704	2730
40°	2660	2688	2726
45°	2621	2680	2669
50°	2575	2665	2505
55°	2508	2582	2411
60°	2413	2407	2296
65°	2261	2274	2148
70°	2076	2099	1945
75°	1744	1826	1663
80°	1384	1413	1170
85°	908	787	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	3.3
10°-20°	276.6	9.6
20°-30°	422.4	14.6
30°-40°	515.3	17.8
40°-50°	538.9	18.6
50°-60°	477.1	16.5
60°-70°	351.3	12.1
70°-80°	181.9	6.3
80°-90°	36.2	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°	795.2	27.5
0°-40°	1310.6	45.3
0°-60°	2326.6	80.3
0°-90°	2896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1013	1013	1009	1013	1013	96
15°	980	980	977	981	980	277
25°	914	914	913	919	920	421
35°	816	818	823	831	831	510
45°	689	694	704	710	701	532
55°	535	545	550	522	514	477
65°	355	377	357	343	337	352
75°	168	180	176	165	160	179
85°	29	31	26	23	22	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	1016.3	1016.3	1012.3	1016.3	1017.2
5°	1013.3	1013.3	1009.4	1013.3	1013.3
7.5°	1008.4	1007.4	1004.5	1008.4	1008.4
10°	1000.6	1000.6	996.6	1001.5	1000.6
12.5°	991.7	990.8	988.8	992.7	991.7
15°	980.0	980.0	977.0	980.9	980.0
17.5°	968.2	967.2	964.3	968.2	968.2
20°	951.5	950.5	949.6	953.5	954.5
22.5°	933.9	932.9	931.9	937.8	937.8
25°	914.2	914.2	913.3	919.1	920.1
27.5°	892.7	892.7	893.6	901.5	900.5
30°	870.1	870.1	872.1	877.9	877.9
32.5°	842.6	844.6	848.5	855.4	855.4
35°	816.1	818.1	823.0	830.9	830.9
37.5°	786.7	789.7	794.6	804.4	806.3
40°	757.3	759.3	765.1	775.9	775.9
42.5°	724.9	726.9	734.7	745.5	743.6
45°	688.6	694.5	704.3	710.2	701.4
47.5°	654.3	658.2	671.9	665.1	650.4
50°	615.1	622.9	636.6	612.1	598.4
52.5°	574.8	583.7	598.4	564.0	556.2
55°	534.6	545.4	550.3	521.9	514.0
57.5°	491.5	503.2	493.4	476.7	468.9
60°	448.3	462.0	447.3	431.6	426.7
62.5°	403.2	418.9	402.2	388.5	381.6
65°	355.1	376.7	357.1	343.3	337.4
67.5°	308.0	330.6	310.0	298.2	294.3
70°	263.9	276.6	266.8	255.0	247.2
72.5°	210.9	223.7	221.7	208.9	204.0
75°	167.7	179.5	175.6	164.8	159.9
77.5°	124.6	137.3	133.4	120.7	118.7
80°	89.3	98.1	91.2	79.5	75.5
82.5°	55.9	62.8	54.0	45.1	43.2
85°	29.4	31.4	25.5	22.6	21.6
87.5°	9.8	10.8	10.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)