

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: P291109

Luminaire Tested: **14GR-LD5-32-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2590.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

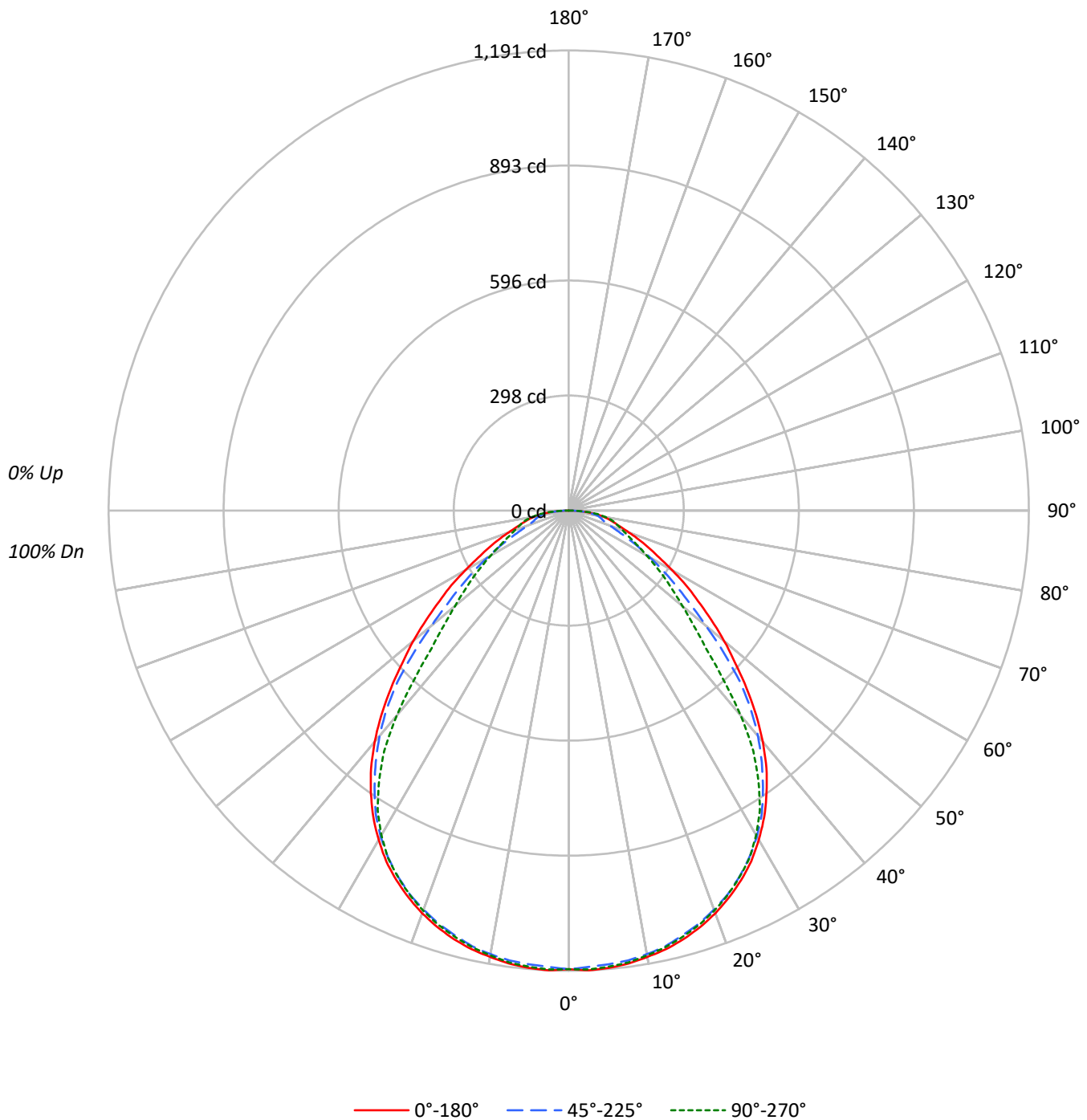
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3194	3194	3194
5°	3209	3185	3201
10°	3205	3186	3194
15°	3199	3171	3181
20°	3177	3147	3156
25°	3135	3104	3106
30°	3058	3026	3013
35°	2933	2879	2814
40°	2745	2675	2434
45°	2479	2385	1902
50°	2199	1937	1609
55°	1919	1589	1420
60°	1664	1308	1253
65°	1459	1049	1157
70°	1301	890	1164
75°	1269	938	1301
80°	1407	1184	1491
85°	1467	1263	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	4.3
10°-20°	322.6	12.5
20°-30°	482.6	18.6
30°-40°	544.7	21.0
40°-50°	462.1	17.8
50°-60°	312.7	12.1
60°-70°	186.6	7.2
70°-80°	116.9	4.5
80°-90°	49.2	1.9
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°	917.8	35.4
0°-40°	1462.5	56.5
0°-60°	2237.3	86.4
0°-90°	2590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1188	1184	1179	1188	1185	113
15°	1148	1146	1138	1146	1142	324
25°	1056	1052	1046	1050	1046	485
35°	893	887	876	869	857	556
45°	652	654	627	537	500	502
55°	409	390	339	303	303	368
65°	229	190	165	176	182	229
75°	122	109	90	119	125	131
85°	48	45	41	53	56	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.9	1186.9	1186.9	1186.9	1186.9
2.5°	1191.1	1187.5	1182.0	1189.3	1188.7
5°	1188.1	1184.4	1179.0	1187.5	1185.0
7.5°	1182.6	1179.6	1174.2	1182.0	1179.6
10°	1173.0	1170.6	1165.8	1172.4	1168.8
12.5°	1162.8	1161.0	1155.0	1161.0	1157.4
15°	1148.4	1145.9	1138.1	1145.9	1141.7
17.5°	1130.3	1127.3	1120.7	1127.3	1123.7
20°	1109.3	1105.6	1099.0	1105.6	1102.0
22.5°	1084.0	1081.0	1075.0	1081.0	1076.2
25°	1055.7	1052.1	1045.5	1050.3	1046.1
27.5°	1023.2	1018.4	1012.4	1016.0	1013.6
30°	984.1	978.1	973.9	973.9	969.7
32.5°	941.4	937.2	930.0	925.8	920.4
35°	892.7	886.7	876.5	868.6	856.6
37.5°	840.4	833.1	820.5	800.7	784.4
40°	781.4	772.4	761.6	722.5	693.0
42.5°	718.2	716.4	697.8	631.0	590.1
45°	651.5	653.9	626.8	537.2	499.9
47.5°	584.1	592.5	543.2	455.4	436.1
50°	525.2	528.2	462.6	395.2	384.4
52.5°	464.4	459.6	394.6	347.7	339.9
55°	409.1	389.8	338.7	303.2	302.6
57.5°	360.3	324.8	289.3	262.9	265.9
60°	309.2	269.5	243.0	228.6	232.8
62.5°	264.1	226.2	202.7	198.5	205.7
65°	229.2	190.1	164.8	175.7	181.7
67.5°	196.1	163.0	134.1	160.0	162.4
70°	165.4	141.4	113.1	147.4	148.0
72.5°	140.2	125.1	98.1	133.5	135.3
75°	122.1	108.9	90.2	119.1	125.1
77.5°	107.1	93.2	83.6	102.9	113.1
80°	90.8	75.2	76.4	86.0	96.2
82.5°	69.8	58.4	60.8	71.0	78.2
85°	47.5	45.1	40.9	52.9	56.5
87.5°	25.3	24.1	21.1	30.1	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)