

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: P291062

Luminaire Tested: **14GR-LD5-32-A-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291062
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-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2571.0 lumens
Efficiency: N/A
Efficacy: 98.0 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

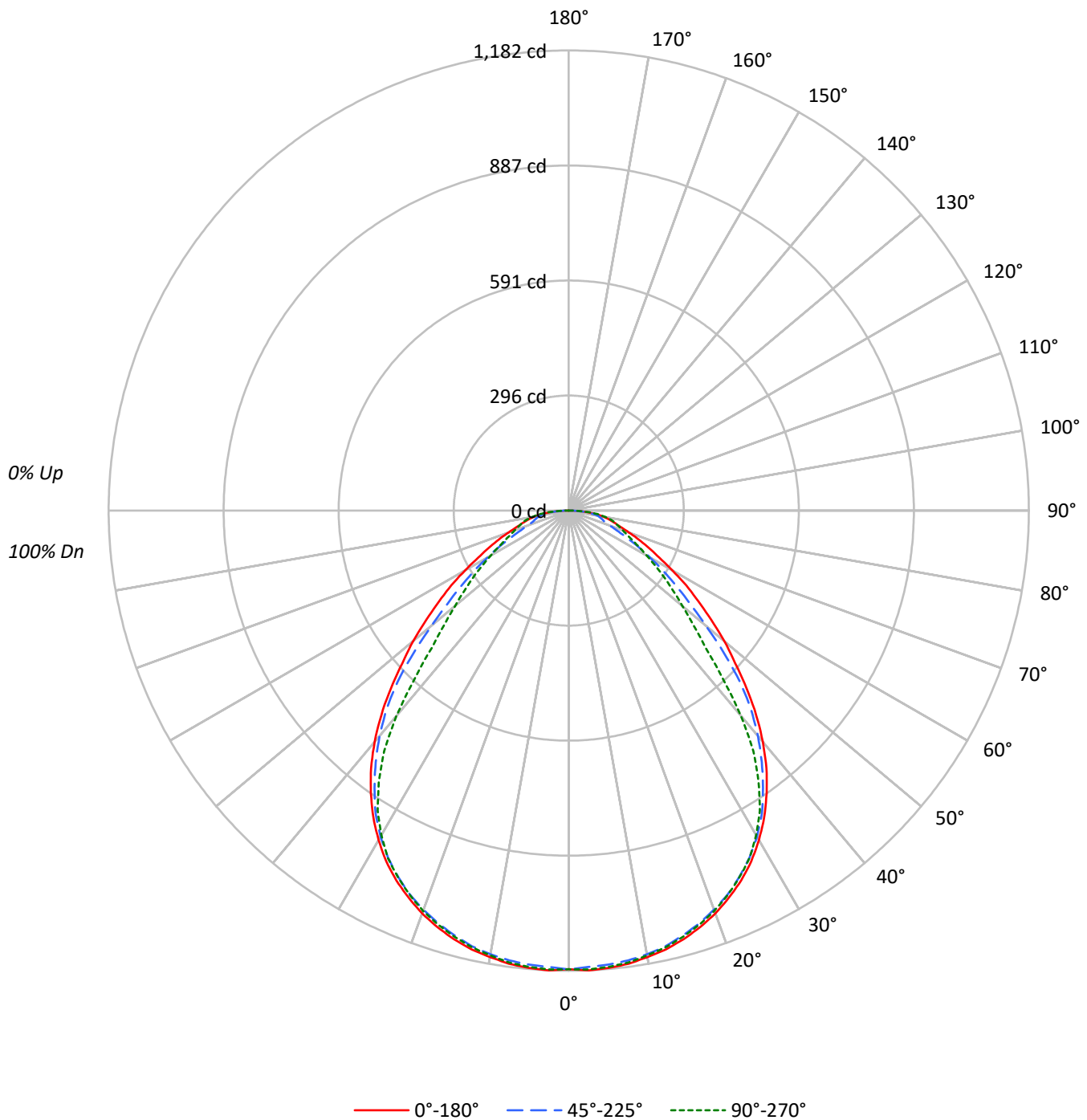
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
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°	3170	3170	3170
5°	3186	3162	3178
10°	3182	3162	3170
15°	3176	3148	3158
20°	3153	3124	3133
25°	3112	3081	3083
30°	3035	3004	2991
35°	2911	2858	2793
40°	2725	2656	2416
45°	2461	2368	1888
50°	2182	1922	1598
55°	1905	1577	1409
60°	1652	1298	1244
65°	1449	1042	1148
70°	1292	884	1156
75°	1260	932	1291
80°	1398	1175	1480
85°	1457	1254	1732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	4.3
10°-20°	320.2	12.5
20°-30°	479.0	18.6
30°-40°	540.7	21.0
40°-50°	458.7	17.8
50°-60°	310.4	12.1
60°-70°	185.3	7.2
70°-80°	116.0	4.5
80°-90°	48.8	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°	911.0	35.4
0°-40°	1451.8	56.5
0°-60°	2220.9	86.4
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1179	1176	1170	1179	1176	112
15°	1140	1138	1130	1138	1133	321
25°	1048	1044	1038	1043	1038	482
35°	886	880	870	862	850	552
45°	647	649	622	533	496	498
55°	406	387	336	301	300	366
65°	228	189	164	174	180	227
75°	121	108	90	118	124	130
85°	47	45	41	52	56	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.1	1178.1	1178.1	1178.1	1178.1
2.5°	1182.3	1178.7	1173.4	1180.5	1179.9
5°	1179.3	1175.8	1170.4	1178.7	1176.4
7.5°	1174.0	1171.0	1165.6	1173.4	1171.0
10°	1164.4	1162.0	1157.2	1163.8	1160.2
12.5°	1154.3	1152.5	1146.5	1152.5	1148.9
15°	1139.9	1137.5	1129.8	1137.5	1133.4
17.5°	1122.0	1119.0	1112.5	1119.0	1115.4
20°	1101.1	1097.5	1091.0	1097.5	1094.0
22.5°	1076.0	1073.1	1067.1	1073.1	1068.3
25°	1048.0	1044.4	1037.8	1042.6	1038.4
27.5°	1015.7	1010.9	1005.0	1008.6	1006.2
30°	976.9	970.9	966.8	966.8	962.6
32.5°	934.5	930.3	923.2	919.0	913.6
35°	886.1	880.2	870.0	862.3	850.3
37.5°	834.2	827.0	814.5	794.8	778.7
40°	775.7	766.7	756.0	717.2	687.9
42.5°	713.0	711.2	692.7	626.4	585.8
45°	646.7	649.1	622.2	533.2	496.2
47.5°	579.8	588.2	539.2	452.0	432.9
50°	521.3	524.3	459.2	392.3	381.6
52.5°	461.0	456.2	391.7	345.1	337.4
55°	406.1	386.9	336.2	301.0	300.4
57.5°	357.7	322.5	287.2	260.9	263.9
60°	306.9	267.5	241.2	226.9	231.1
62.5°	262.1	224.5	201.2	197.1	204.2
65°	227.5	188.7	163.6	174.4	180.3
67.5°	194.7	161.8	133.2	158.8	161.2
70°	164.2	140.3	112.3	146.3	146.9
72.5°	139.1	124.2	97.3	132.6	134.4
75°	121.2	108.1	89.6	118.2	124.2
77.5°	106.3	92.6	83.0	102.1	112.3
80°	90.2	74.6	75.8	85.4	95.5
82.5°	69.3	57.9	60.3	70.5	77.6
85°	47.2	44.8	40.6	52.5	56.1
87.5°	25.1	23.9	20.9	29.9	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)