

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: P290949

Luminaire Tested: **14GR-LD5-20-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290949
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-LD5-20-A-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1969.0 lumens
Efficiency: N/A
Efficacy: 126.8 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

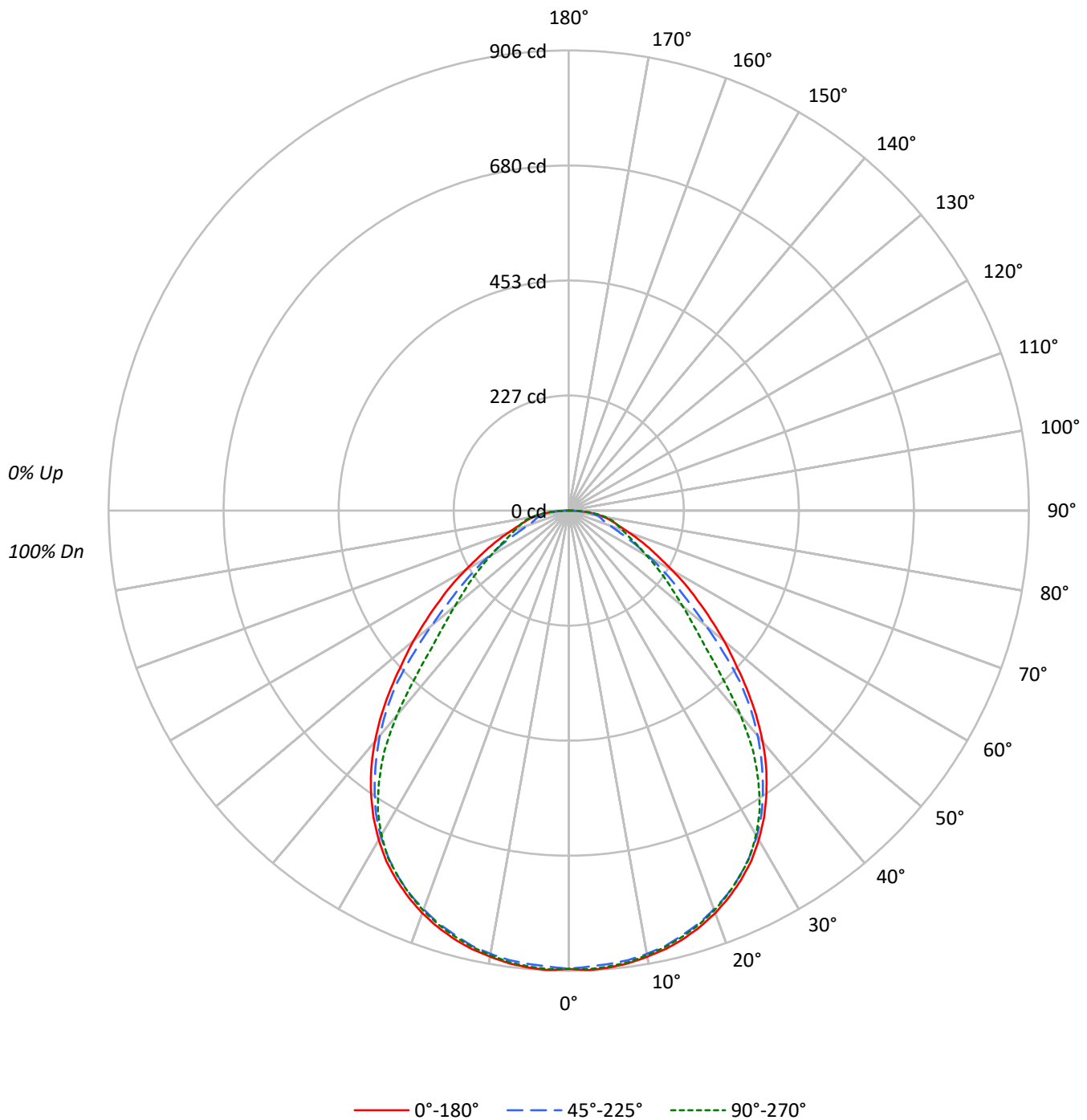
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	73	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2428	2428	2428
5°	2440	2421	2434
10°	2437	2422	2428
15°	2432	2410	2418
20°	2415	2393	2399
25°	2383	2360	2361
30°	2325	2301	2291
35°	2230	2189	2139
40°	2087	2034	1851
45°	1885	1813	1446
50°	1671	1472	1223
55°	1459	1208	1079
60°	1265	995	953
65°	1109	798	879
70°	990	677	885
75°	965	713	989
80°	1071	900	1134
85°	1115	960	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	4.3
10°-20°	245.2	12.5
20°-30°	366.9	18.6
30°-40°	414.1	21.0
40°-50°	351.3	17.8
50°-60°	237.7	12.1
60°-70°	141.9	7.2
70°-80°	88.9	4.5
80°-90°	37.4	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°	697.7	35.4
0°-40°	1111.8	56.5
0°-60°	1700.9	86.4
0°-90°	1969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	903	900	896	903	901	86
15°	873	871	865	871	868	246
25°	803	800	795	798	795	369
35°	679	674	666	660	651	423
45°	495	497	476	408	380	382
55°	311	296	258	230	230	280
65°	174	144	125	134	138	174
75°	93	83	69	90	95	100
85°	36	34	31	40	43	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	905.5	902.7	898.6	904.1	903.7
5°	903.2	900.5	896.3	902.7	900.9
7.5°	899.1	896.8	892.7	898.6	896.8
10°	891.8	889.9	886.3	891.3	888.6
12.5°	884.0	882.6	878.0	882.6	879.9
15°	873.0	871.2	865.2	871.2	868.0
17.5°	859.3	857.0	852.0	857.0	854.3
20°	843.3	840.5	835.5	840.5	837.8
22.5°	824.1	821.8	817.2	821.8	818.1
25°	802.6	799.8	794.8	798.5	795.3
27.5°	777.9	774.2	769.7	772.4	770.6
30°	748.2	743.6	740.4	740.4	737.2
32.5°	715.7	712.5	707.0	703.8	699.7
35°	678.7	674.1	666.3	660.4	651.2
37.5°	638.9	633.4	623.8	608.7	596.3
40°	594.1	587.2	579.0	549.2	526.8
42.5°	546.0	544.7	530.5	479.7	448.6
45°	495.3	497.1	476.5	408.4	380.0
47.5°	444.1	450.5	413.0	346.2	331.6
50°	399.2	401.5	351.7	300.5	292.2
52.5°	353.0	349.4	300.0	264.3	258.4
55°	311.0	296.3	257.5	230.5	230.0
57.5°	273.9	247.0	220.0	199.8	202.1
60°	235.1	204.9	184.8	173.8	177.0
62.5°	200.8	172.0	154.1	150.9	156.4
65°	174.2	144.5	125.3	133.5	138.1
67.5°	149.1	123.9	102.0	121.6	123.5
70°	125.8	107.5	86.0	112.0	112.5
72.5°	106.6	95.1	74.5	101.5	102.9
75°	92.8	82.8	68.6	90.5	95.1
77.5°	81.4	70.9	63.6	78.2	86.0
80°	69.1	57.2	58.1	65.4	73.2
82.5°	53.0	44.4	46.2	54.0	59.5
85°	36.1	34.3	31.1	40.2	43.0
87.5°	19.2	18.3	16.0	22.9	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)