

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: P291089

Luminaire Tested: **14GR-LD5-20-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291089
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-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1964.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

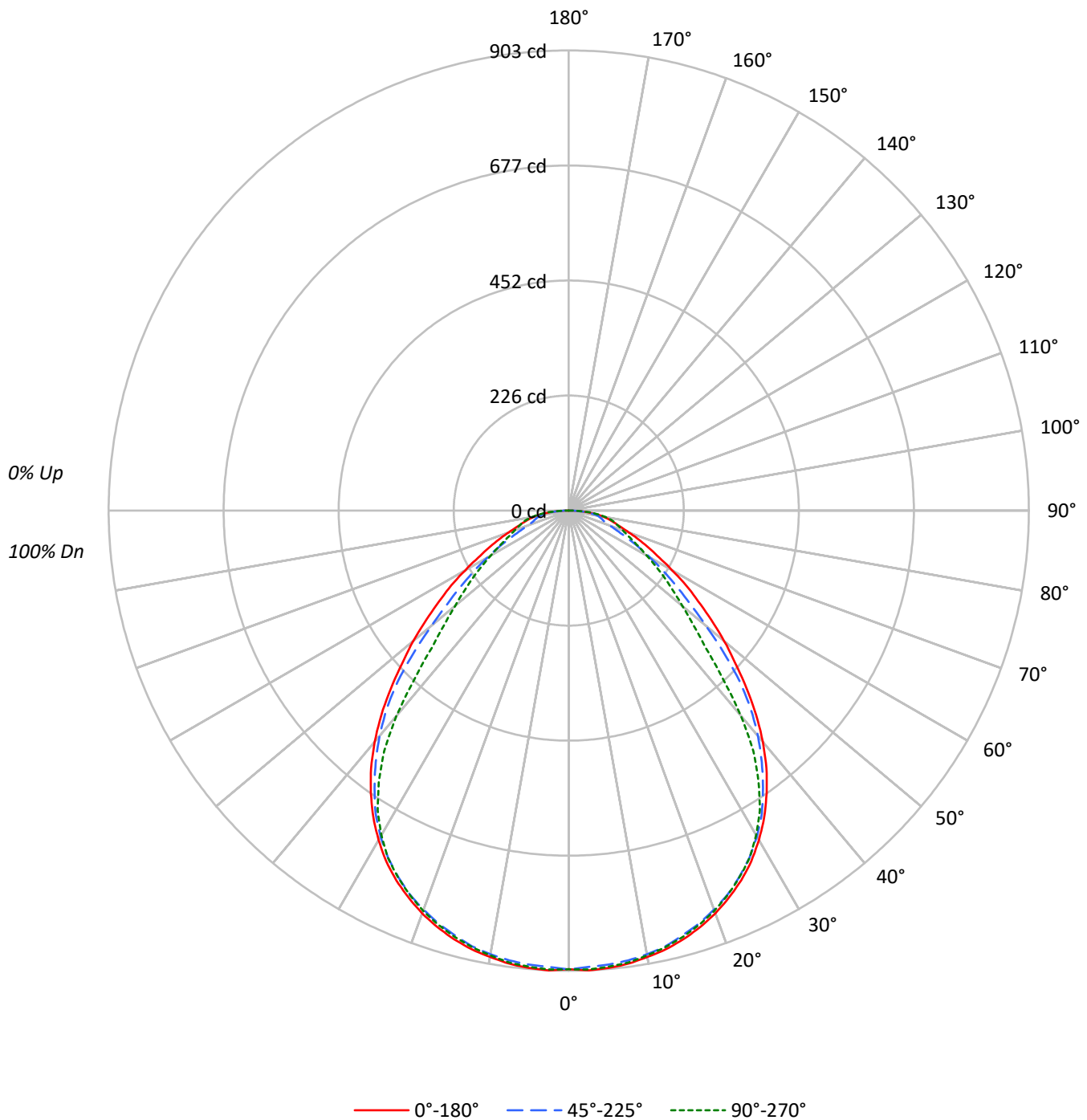
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2422	2422	2422
5°	2434	2415	2427
10°	2431	2416	2422
15°	2426	2404	2412
20°	2409	2387	2393
25°	2377	2354	2355
30°	2319	2295	2285
35°	2224	2183	2134
40°	2081	2029	1846
45°	1880	1809	1443
50°	1667	1469	1220
55°	1455	1205	1076
60°	1262	992	950
65°	1107	796	877
70°	987	675	883
75°	963	711	987
80°	1068	897	1131
85°	1112	957	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	4.3
10°-20°	244.6	12.5
20°-30°	365.9	18.6
30°-40°	413.1	21.0
40°-50°	350.4	17.8
50°-60°	237.1	12.1
60°-70°	141.5	7.2
70°-80°	88.6	4.5
80°-90°	37.3	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°	695.9	35.4
0°-40°	1109.0	56.5
0°-60°	1696.5	86.4
0°-90°	1964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	901	898	894	900	899	86
15°	871	869	863	869	866	246
25°	801	798	793	796	793	368
35°	677	672	665	659	650	422
45°	494	496	475	407	379	381
55°	310	296	257	230	229	279
65°	174	144	125	133	138	174
75°	93	83	68	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°	900.0	900.0	900.0	900.0	900.0
2.5°	903.2	900.4	896.3	901.8	901.4
5°	900.9	898.2	894.1	900.4	898.6
7.5°	896.8	894.5	890.4	896.3	894.5
10°	889.5	887.7	884.0	889.0	886.3
12.5°	881.7	880.4	875.8	880.4	877.6
15°	870.8	869.0	863.0	869.0	865.8
17.5°	857.1	854.8	849.8	854.8	852.1
20°	841.1	838.4	833.4	838.4	835.7
22.5°	822.0	819.7	815.1	819.7	816.1
25°	800.6	797.8	792.8	796.4	793.3
27.5°	775.9	772.3	767.7	770.4	768.6
30°	746.3	741.7	738.5	738.5	735.3
32.5°	713.9	710.7	705.2	702.0	697.9
35°	676.9	672.4	664.6	658.7	649.6
37.5°	637.2	631.8	622.2	607.1	594.8
40°	592.5	585.7	577.5	547.8	525.5
42.5°	544.6	543.3	529.1	478.5	447.5
45°	494.0	495.8	475.3	407.3	379.1
47.5°	442.9	449.3	411.9	345.3	330.7
50°	398.2	400.5	350.8	299.7	291.5
52.5°	352.2	348.5	299.2	263.7	257.7
55°	310.2	295.6	256.8	229.9	229.4
57.5°	273.2	246.3	219.4	199.3	201.6
60°	234.5	204.4	184.3	173.3	176.5
62.5°	200.3	171.5	153.7	150.5	156.0
65°	173.8	144.1	125.0	133.2	137.8
67.5°	148.7	123.6	101.7	121.3	123.2
70°	125.4	107.2	85.8	111.8	112.2
72.5°	106.3	94.9	74.4	101.3	102.6
75°	92.6	82.6	68.4	90.3	94.9
77.5°	81.2	70.7	63.4	78.0	85.8
80°	68.9	57.0	57.9	65.2	73.0
82.5°	52.9	44.2	46.1	53.8	59.3
85°	36.0	34.2	31.0	40.1	42.9
87.5°	19.2	18.2	16.0	22.8	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)