

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: P291090

Luminaire Tested: **14GR-LD5-20-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291090
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1977.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

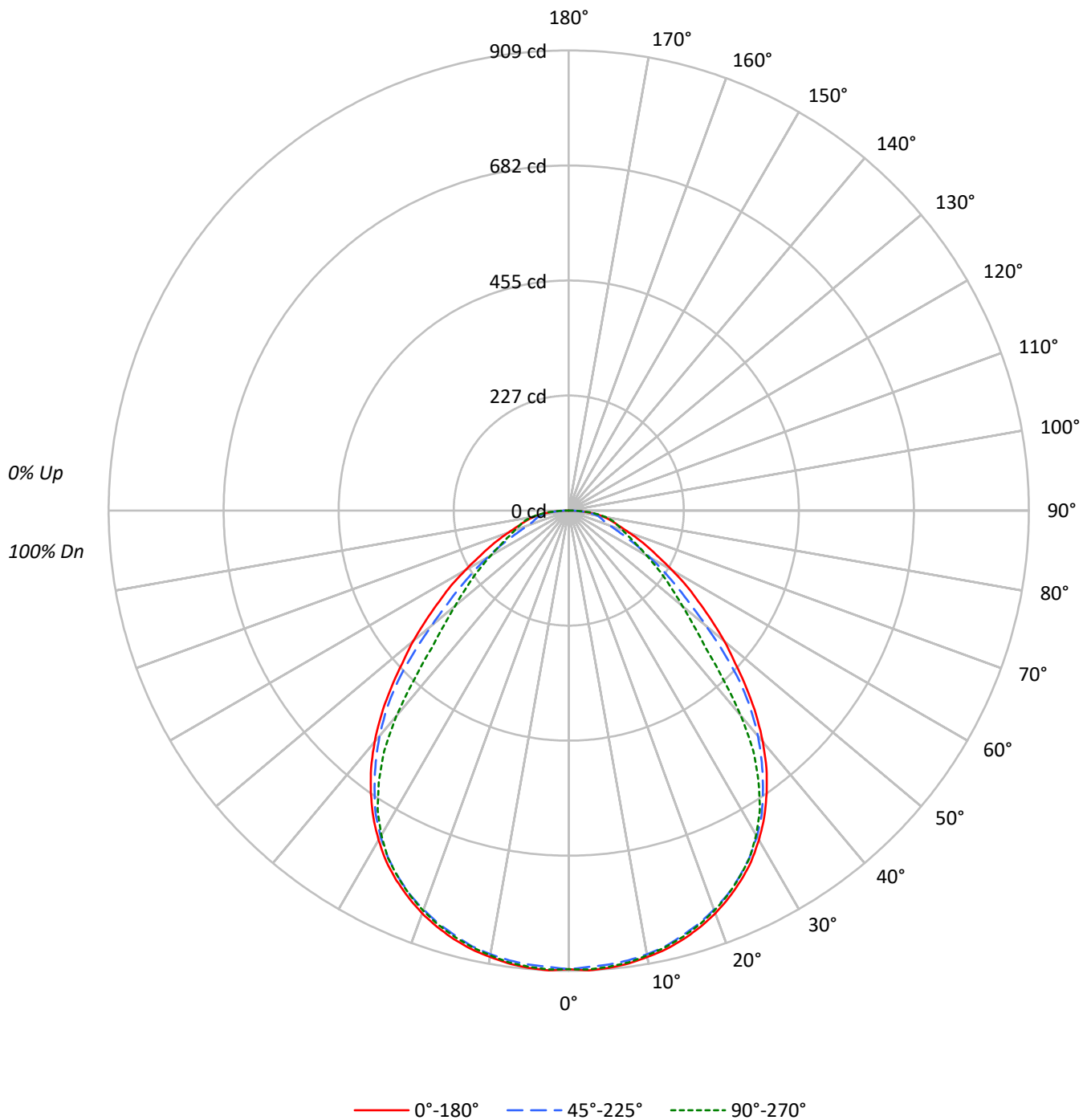
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291090

CATALOG NUMBER: 14GR-LD5-20-A-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot



TEST NUMBER: P291090

CATALOG NUMBER: 14GR-LD5-20-A-UNV-L92765-W2A1-U-6500K

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°	2438	2438	2438
5°	2450	2431	2444
10°	2447	2432	2438
15°	2442	2420	2428
20°	2425	2402	2409
25°	2393	2369	2371
30°	2334	2310	2300
35°	2238	2198	2148
40°	2095	2042	1858
45°	1893	1821	1452
50°	1678	1478	1228
55°	1465	1213	1084
60°	1270	998	956
65°	1114	801	883
70°	994	679	889
75°	969	716	993
80°	1074	903	1139
85°	1121	963	1334



TEST NUMBER: P291090

CATALOG NUMBER: 14GR-LD5-20-A-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	4.3
10°-20°	246.2	12.5
20°-30°	368.3	18.6
30°-40°	415.8	21.0
40°-50°	352.8	17.8
50°-60°	238.7	12.1
60°-70°	142.5	7.2
70°-80°	89.2	4.5
80°-90°	37.5	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°	700.5	35.4
0°-40°	1116.4	56.5
0°-60°	1707.8	86.4
0°-90°	1977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	907	904	900	906	905	86
15°	877	875	869	875	872	247
25°	806	803	798	802	798	371
35°	681	677	669	663	654	425
45°	497	499	478	410	382	383
55°	312	298	258	231	231	281
65°	175	145	126	134	139	175
75°	93	83	69	91	96	100
85°	36	34	31	40	43	39
90°	0	0	0	0	0	



TEST NUMBER: P291090

CATALOG NUMBER: 14GR-LD5-20-A-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.9	905.9	905.9	905.9	905.9
2.5°	909.2	906.4	902.3	907.8	907.3
5°	906.9	904.1	900.0	906.4	904.6
7.5°	902.7	900.4	896.3	902.3	900.4
10°	895.4	893.6	889.9	894.9	892.2
12.5°	887.6	886.2	881.6	886.2	883.4
15°	876.6	874.7	868.8	874.7	871.5
17.5°	862.8	860.5	855.4	860.5	857.7
20°	846.7	844.0	838.9	844.0	841.2
22.5°	827.4	825.1	820.5	825.1	821.5
25°	805.8	803.1	798.0	801.7	798.5
27.5°	781.1	777.4	772.8	775.5	773.7
30°	751.2	746.6	743.4	743.4	740.2
32.5°	718.6	715.4	709.9	706.7	702.5
35°	681.4	676.8	669.0	663.0	653.9
37.5°	641.5	636.0	626.3	611.2	598.8
40°	596.5	589.6	581.3	551.5	529.0
42.5°	548.3	546.9	532.6	481.7	450.4
45°	497.3	499.1	478.5	410.0	381.6
47.5°	445.9	452.3	414.6	347.6	332.9
50°	400.9	403.2	353.1	301.7	293.4
52.5°	354.5	350.8	301.2	265.4	259.4
55°	312.2	297.5	258.5	231.4	231.0
57.5°	275.0	248.0	220.9	200.7	203.0
60°	236.0	205.7	185.5	174.5	177.7
62.5°	201.6	172.6	154.7	151.5	157.0
65°	174.9	145.1	125.8	134.1	138.7
67.5°	149.7	124.4	102.4	122.1	124.0
70°	126.3	107.9	86.3	112.5	113.0
72.5°	107.0	95.5	74.8	101.9	103.3
75°	93.2	83.1	68.9	90.9	95.5
77.5°	81.7	71.2	63.8	78.5	86.3
80°	69.3	57.4	58.3	65.7	73.5
82.5°	53.3	44.5	46.4	54.2	59.7
85°	36.3	34.4	31.2	40.4	43.2
87.5°	19.3	18.4	16.1	23.0	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)