

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: P290893

Luminaire Tested: **14GR-LD5-20-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F125-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1943.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

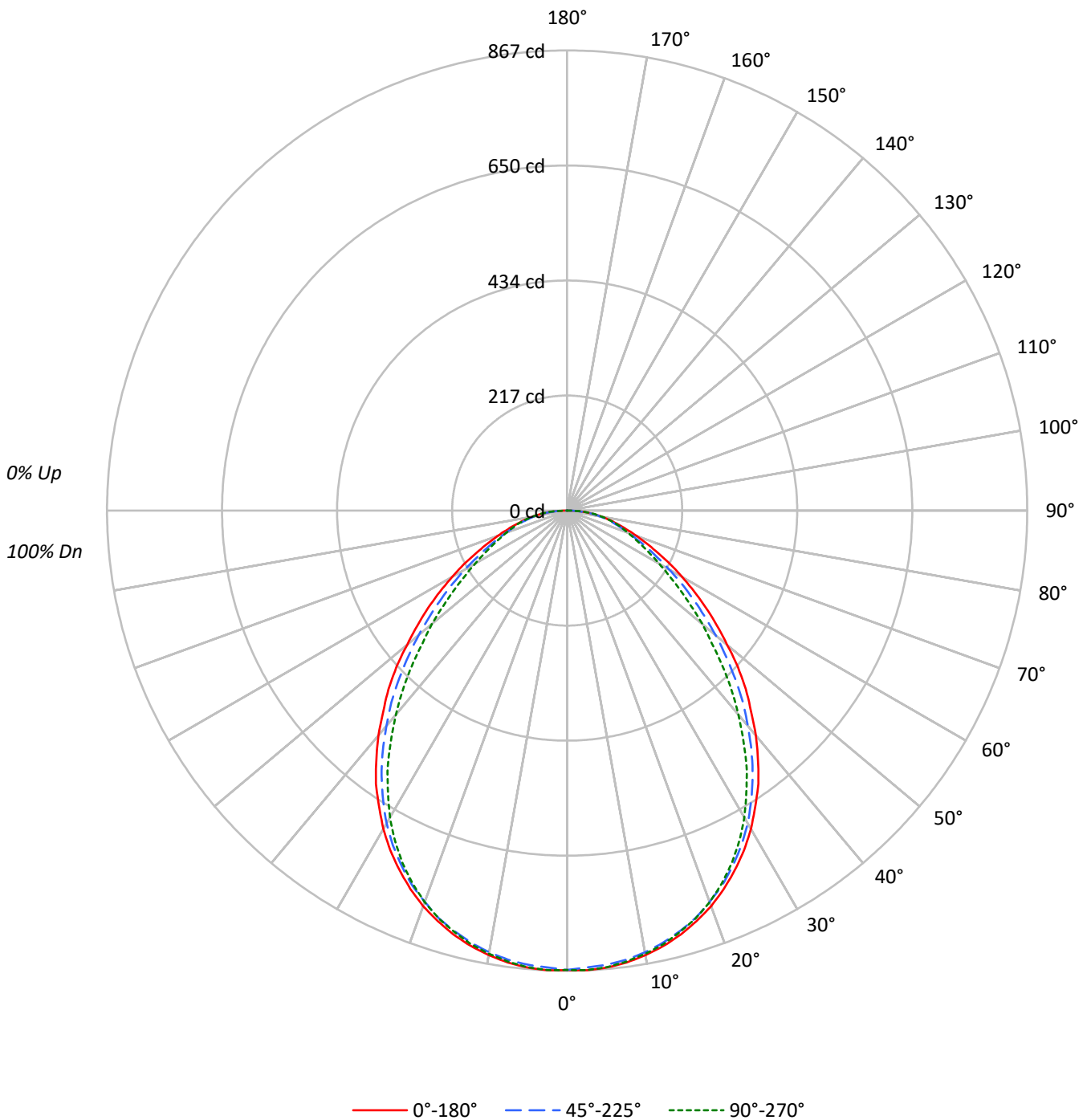
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2329	2329	2329
5°	2334	2320	2332
10°	2324	2309	2317
15°	2303	2286	2289
20°	2271	2246	2248
25°	2219	2192	2177
30°	2151	2114	2075
35°	2063	2003	1937
40°	1943	1860	1762
45°	1812	1703	1576
50°	1648	1527	1392
55°	1500	1354	1213
60°	1345	1193	1077
65°	1200	1063	990
70°	1090	969	958
75°	1020	944	991
80°	1024	975	1032
85°	1071	1000	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	4.2
10°-20°	232.0	11.9
20°-30°	340.2	17.5
30°-40°	379.7	19.5
40°-50°	343.8	17.7
50°-60°	259.6	13.4
60°-70°	169.7	8.7
70°-80°	99.7	5.1
80°-90°	36.5	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°	654.1	33.7
0°-40°	1033.8	53.2
0°-60°	1637.2	84.3
0°-90°	1943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	864	862	859	864	863	82
15°	827	826	820	825	822	233
25°	748	745	738	737	733	344
35°	628	622	610	596	590	391
45°	476	469	447	423	414	366
55°	320	312	289	266	259	286
65°	188	182	167	157	156	189
75°	98	95	91	93	95	105
85°	35	33	32	36	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.6	865.6	865.6	865.6	865.6
2.5°	867.0	865.6	861.5	867.0	866.5
5°	864.2	862.4	858.8	863.8	863.3
7.5°	858.8	856.9	853.3	857.8	856.9
10°	850.5	848.7	845.1	850.1	847.8
12.5°	840.1	838.2	834.1	838.7	836.9
15°	826.8	825.5	820.4	825.0	821.8
17.5°	810.9	808.6	804.9	807.7	805.4
20°	793.1	790.3	784.4	787.2	784.9
22.5°	771.6	768.0	763.9	763.9	760.7
25°	747.5	744.7	738.4	737.0	733.3
27.5°	721.5	719.2	711.0	708.7	702.3
30°	692.3	689.1	680.4	673.1	667.7
32.5°	659.9	657.6	645.8	636.2	628.4
35°	628.0	622.5	609.7	596.1	589.7
37.5°	590.6	586.5	570.5	553.7	545.0
40°	553.2	548.2	529.5	510.8	501.7
42.5°	512.6	508.0	490.3	467.9	458.3
45°	476.1	468.8	447.4	423.2	414.1
47.5°	436.0	428.2	405.4	379.9	369.4
50°	393.6	388.6	364.8	340.2	332.5
52.5°	355.7	348.0	325.6	301.5	293.2
55°	319.7	312.4	288.7	265.9	258.6
57.5°	283.7	275.5	254.9	234.4	227.1
60°	249.9	241.7	221.6	204.8	200.2
62.5°	219.4	210.2	192.5	179.2	176.0
65°	188.4	182.4	166.9	157.3	155.5
67.5°	162.4	155.1	142.7	138.2	137.3
70°	138.6	133.6	123.1	121.8	121.8
72.5°	117.2	113.1	105.3	106.3	107.6
75°	98.1	95.3	90.8	92.6	95.3
77.5°	81.6	78.9	76.2	78.9	80.7
80°	66.1	63.4	62.9	65.2	66.6
82.5°	49.7	47.4	47.9	51.5	52.9
85°	34.7	33.3	32.4	36.5	36.9
87.5°	17.8	16.9	16.4	19.6	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)