

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: P290987

Luminaire Tested: **14GR-LD5-20-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290987
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-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2079.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

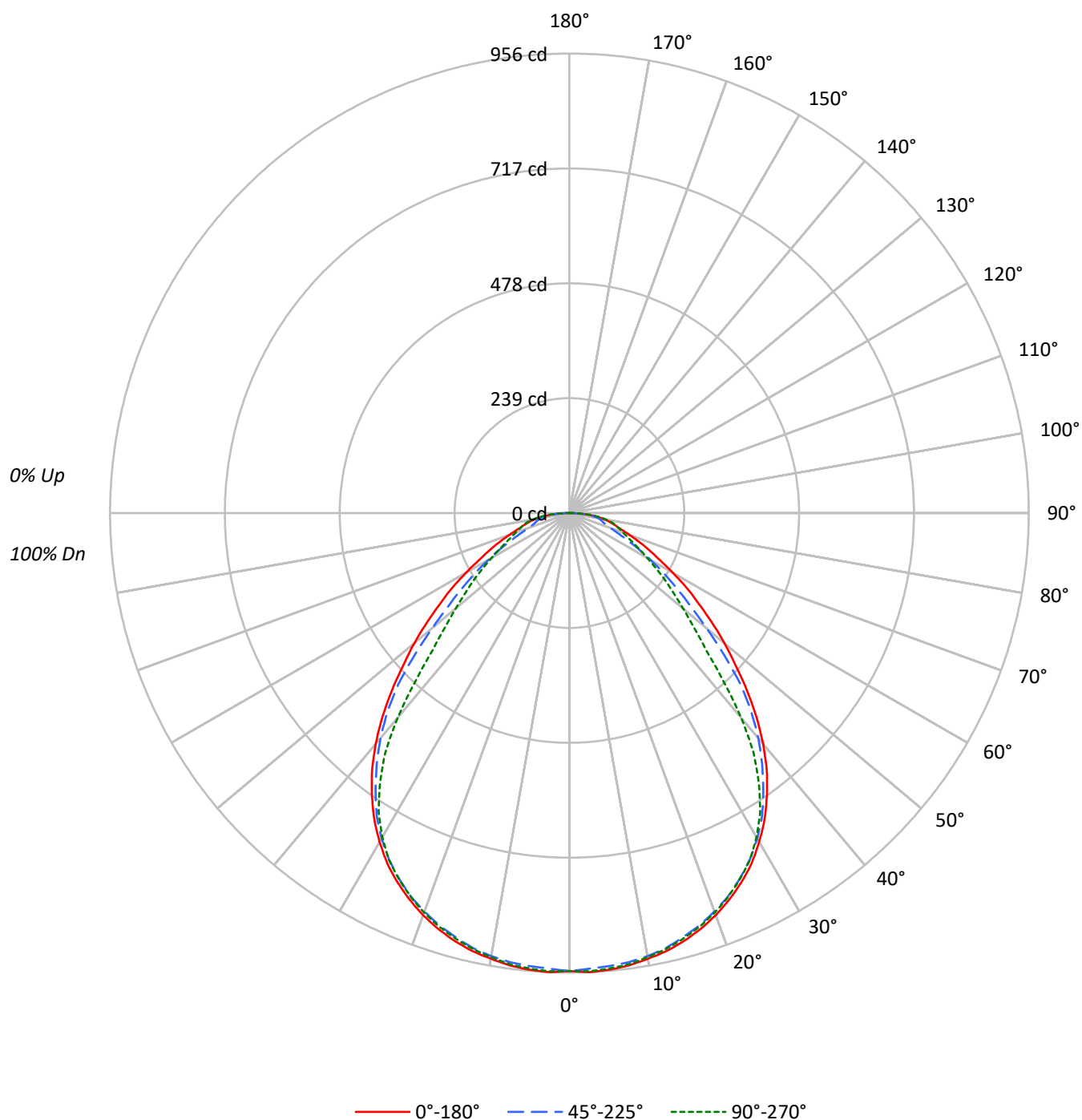
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		64
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		36
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2564	2564	2564
5°	2576	2556	2569
10°	2573	2557	2564
15°	2568	2545	2553
20°	2550	2526	2533
25°	2516	2492	2493
30°	2455	2429	2419
35°	2354	2311	2259
40°	2203	2147	1954
45°	1990	1915	1527
50°	1765	1554	1292
55°	1540	1276	1140
60°	1336	1050	1006
65°	1172	842	928
70°	1045	714	935
75°	1019	753	1044
80°	1130	950	1198
85°	1176	1013	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	4.3
10°-20°	258.9	12.5
20°-30°	387.4	18.6
30°-40°	437.3	21.0
40°-50°	370.9	17.8
50°-60°	251.0	12.1
60°-70°	149.8	7.2
70°-80°	93.8	4.5
80°-90°	39.5	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°	736.7	35.4
0°-40°	1174.0	56.5
0°-60°	1795.9	86.4
0°-90°	2079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	954	951	946	953	951	91
15°	922	920	914	920	916	260
25°	847	844	839	843	840	390
35°	717	712	704	697	688	446
45°	523	525	503	431	401	403
55°	328	313	272	243	243	296
65°	184	153	132	141	146	184
75°	98	87	72	96	100	105
85°	38	36	33	42	45	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.7	952.7	952.7	952.7	952.7
2.5°	956.1	953.2	948.8	954.6	954.1
5°	953.7	950.8	946.4	953.2	951.2
7.5°	949.3	946.9	942.5	948.8	946.9
10°	941.6	939.7	935.8	941.1	938.2
12.5°	933.4	931.9	927.1	931.9	929.0
15°	921.8	919.9	913.6	919.9	916.5
17.5°	907.3	904.9	899.6	904.9	902.0
20°	890.4	887.5	882.2	887.5	884.6
22.5°	870.1	867.7	862.9	867.7	863.8
25°	847.4	844.5	839.2	843.1	839.7
27.5°	821.4	817.5	812.7	815.6	813.6
30°	790.0	785.1	781.8	781.8	778.4
32.5°	755.7	752.3	746.5	743.1	738.8
35°	716.6	711.7	703.5	697.3	687.6
37.5°	674.6	668.8	658.6	642.7	629.7
40°	627.2	620.0	611.3	579.9	556.3
42.5°	576.5	575.1	560.1	506.5	473.7
45°	522.9	524.9	503.1	431.2	401.3
47.5°	468.9	475.6	436.0	365.5	350.1
50°	421.5	424.0	371.3	317.2	308.5
52.5°	372.8	368.9	316.8	279.1	272.8
55°	328.3	312.9	271.9	243.4	242.9
57.5°	289.2	260.7	232.3	211.0	213.4
60°	248.2	216.3	195.1	183.5	186.9
62.5°	212.0	181.6	162.7	159.3	165.1
65°	184.0	152.6	132.3	141.0	145.8
67.5°	157.4	130.9	107.7	128.4	130.4
70°	132.8	113.5	90.8	118.3	118.8
72.5°	112.5	100.4	78.7	107.2	108.6
75°	98.0	87.4	72.4	95.6	100.4
77.5°	85.9	74.8	67.1	82.6	90.8
80°	72.9	60.4	61.3	69.0	77.3
82.5°	56.0	46.8	48.8	57.0	62.8
85°	38.1	36.2	32.8	42.5	45.4
87.5°	20.3	19.3	16.9	24.1	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)