

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: P290600

Luminaire Tested: **14GR-LD5-20-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F1-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2154.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

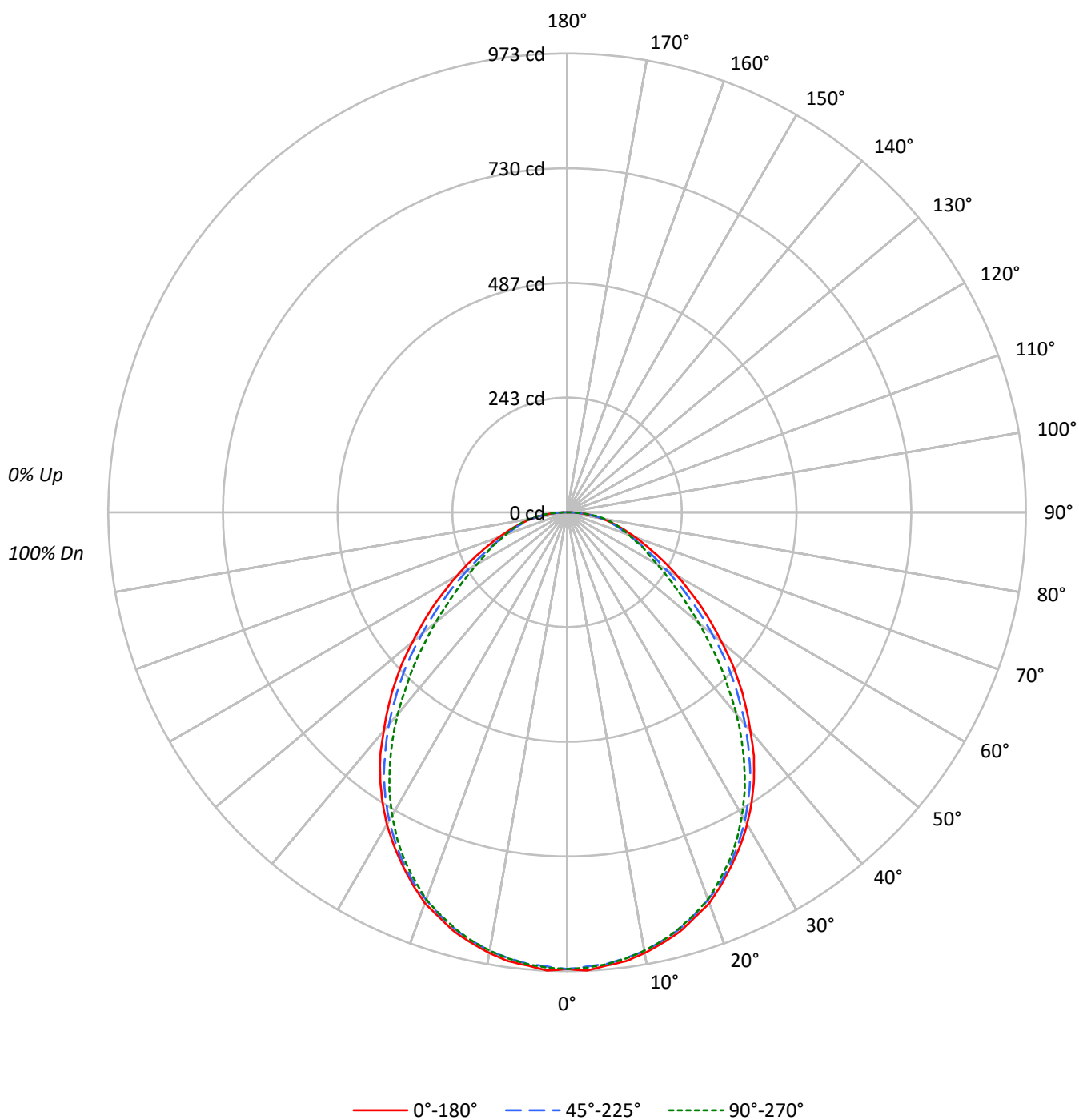
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2607	2607	2607
5°	2606	2597	2598
10°	2593	2581	2579
15°	2567	2552	2547
20°	2525	2504	2501
25°	2453	2436	2419
30°	2373	2344	2304
35°	2269	2225	2152
40°	2125	2066	1963
45°	1973	1885	1748
50°	1790	1678	1521
55°	1619	1483	1330
60°	1454	1299	1185
65°	1305	1160	1135
70°	1205	1080	1091
75°	1150	1083	1145
80°	1162	1156	1247
85°	1204	1189	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	4.2
10°-20°	258.5	12.0
20°-30°	377.6	17.5
30°-40°	420.7	19.5
40°-50°	379.1	17.6
50°-60°	283.4	13.2
60°-70°	186.9	8.7
70°-80°	114.1	5.3
80°-90°	42.3	2.0
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°	727.5	33.8
0°-40°	1148.3	53.3
0°-60°	1810.7	84.1
0°-90°	2154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	965	964	961	966	962	92
15°	921	918	916	921	914	259
25°	826	823	821	822	815	380
35°	691	685	677	666	655	431
45°	518	513	495	472	459	399
55°	345	340	316	290	283	309
65°	205	198	182	175	178	205
75°	111	109	104	108	110	118
85°	39	38	38	42	43	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	968.7	968.7	968.7	968.7	968.7
2.5°	972.7	968.2	964.3	970.2	966.7
5°	964.8	963.8	961.3	966.2	961.8
7.5°	959.8	956.4	953.4	959.3	954.4
10°	949.0	947.0	944.5	949.5	944.0
12.5°	935.6	933.7	931.2	937.1	931.2
15°	921.3	917.9	915.9	921.3	914.4
17.5°	900.6	899.1	896.1	901.6	894.6
20°	881.8	876.4	874.4	878.4	873.4
22.5°	854.7	850.7	850.2	852.7	844.3
25°	826.0	823.1	820.6	822.1	814.7
27.5°	795.9	792.0	789.0	788.5	780.6
30°	763.8	758.9	754.4	750.5	741.6
32.5°	728.8	722.8	716.9	710.5	701.1
35°	690.7	684.8	677.4	665.6	655.2
37.5°	650.7	643.8	632.0	618.2	607.8
40°	604.8	601.4	588.0	570.3	558.9
42.5°	561.9	557.9	541.1	521.4	506.1
45°	518.4	513.0	495.2	472.5	459.2
47.5°	474.0	468.6	448.8	420.7	408.8
50°	427.6	424.6	400.9	375.2	363.4
52.5°	385.1	381.7	357.5	331.8	320.9
55°	345.1	339.7	316.0	289.8	283.4
57.5°	305.1	299.2	277.0	254.8	250.3
60°	270.1	262.7	241.4	224.2	220.2
62.5°	237.0	228.6	210.8	197.5	195.5
65°	204.9	198.5	182.2	174.8	178.2
67.5°	177.3	170.8	159.0	156.0	155.0
70°	153.1	147.1	137.3	138.2	138.7
72.5°	130.8	127.4	120.0	122.4	124.4
75°	110.6	108.6	104.2	107.6	110.1
77.5°	92.3	90.8	88.9	91.8	95.8
80°	75.0	74.1	74.6	76.5	80.5
82.5°	57.8	55.8	57.3	61.2	63.7
85°	39.0	37.5	38.5	42.5	43.0
87.5°	18.3	18.3	17.8	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)