

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: P290695

Luminaire Tested: **14GR-LD5-20-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290695
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-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1905.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

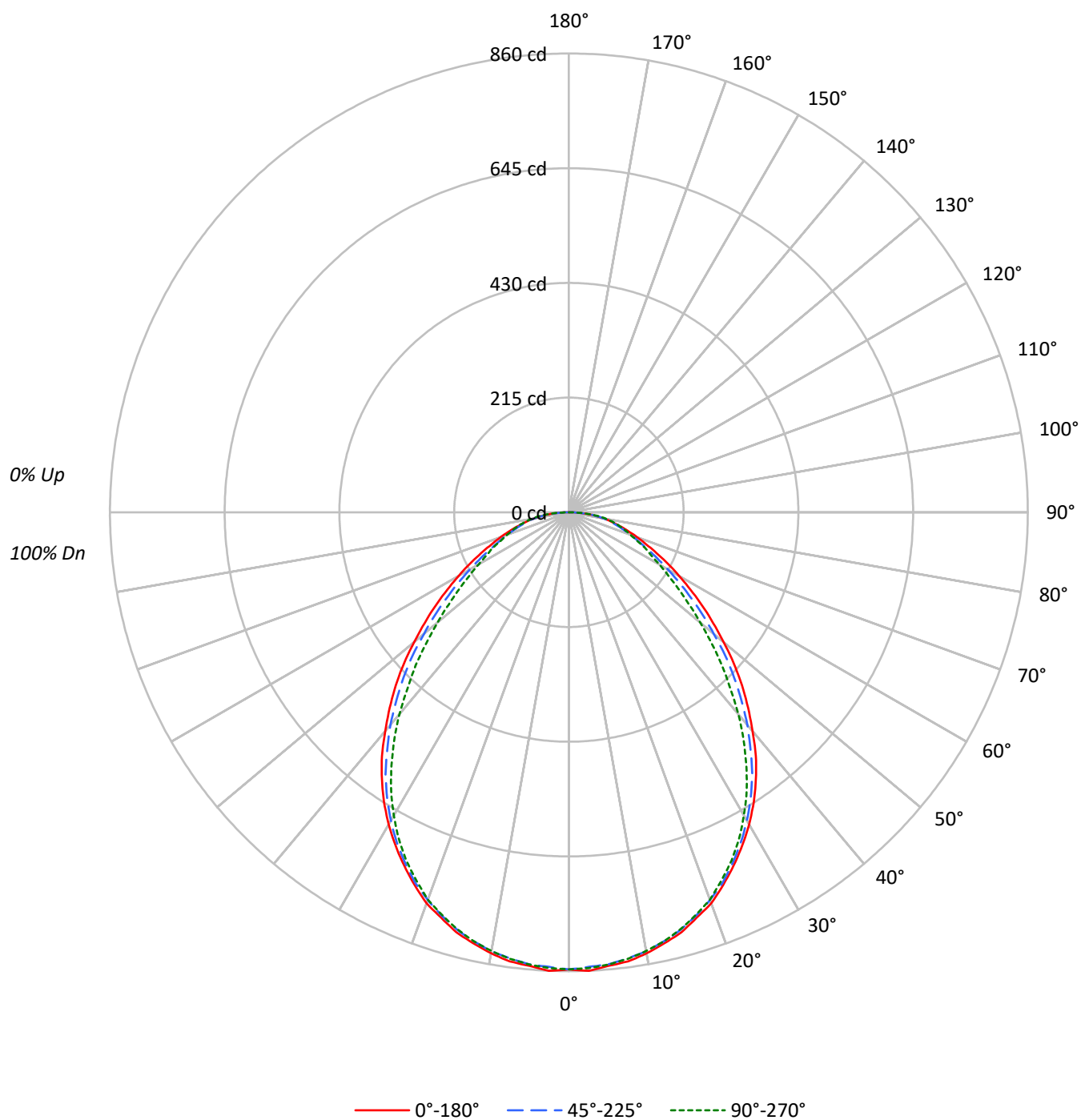
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2305	2305	2305
5°	2305	2297	2298
10°	2293	2282	2281
15°	2270	2257	2253
20°	2233	2214	2212
25°	2169	2155	2139
30°	2099	2073	2038
35°	2007	1968	1903
40°	1879	1827	1736
45°	1745	1667	1545
50°	1583	1485	1346
55°	1432	1311	1176
60°	1286	1149	1048
65°	1154	1026	1004
70°	1065	955	965
75°	1017	958	1013
80°	1029	1021	1103
85°	1065	1053	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	4.2
10°-20°	228.6	12.0
20°-30°	333.9	17.5
30°-40°	372.1	19.5
40°-50°	335.2	17.6
50°-60°	250.6	13.2
60°-70°	165.3	8.7
70°-80°	100.9	5.3
80°-90°	37.4	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°	643.4	33.8
0°-40°	1015.5	53.3
0°-60°	1601.3	84.1
0°-90°	1905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	853	852	850	854	851	81
15°	815	812	810	815	809	229
25°	730	728	726	727	720	336
35°	611	606	599	589	579	381
45°	458	454	438	418	406	353
55°	305	300	280	256	251	273
65°	181	176	161	155	158	182
75°	98	96	92	95	97	104
85°	34	33	34	38	38	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.7	856.7	856.7	856.7	856.7
2.5°	860.2	856.3	852.8	858.0	855.0
5°	853.2	852.4	850.2	854.5	850.6
7.5°	848.9	845.8	843.2	848.4	844.1
10°	839.3	837.5	835.3	839.7	834.9
12.5°	827.5	825.7	823.5	828.8	823.5
15°	814.8	811.8	810.0	814.8	808.7
17.5°	796.5	795.2	792.5	797.3	791.2
20°	779.9	775.1	773.3	776.8	772.5
22.5°	755.9	752.4	751.9	754.1	746.7
25°	730.5	727.9	725.7	727.0	720.5
27.5°	703.9	700.4	697.8	697.3	690.4
30°	675.5	671.1	667.2	663.7	655.9
32.5°	644.5	639.3	634.0	628.4	620.1
35°	610.9	605.6	599.1	588.6	579.4
37.5°	575.5	569.4	558.9	546.7	537.5
40°	534.9	531.9	520.1	504.3	494.3
42.5°	496.9	493.4	478.6	461.1	447.6
45°	458.5	453.7	438.0	417.9	406.1
47.5°	419.2	414.4	396.9	372.0	361.6
50°	378.1	375.5	354.6	331.9	321.4
52.5°	340.6	337.5	316.1	293.4	283.8
55°	305.2	300.4	279.5	256.3	250.6
57.5°	269.9	264.6	245.0	225.3	221.4
60°	238.9	232.3	213.5	198.2	194.8
62.5°	209.6	202.2	186.5	174.7	172.9
65°	181.2	175.5	161.1	154.6	157.6
67.5°	156.8	151.1	140.6	138.0	137.1
70°	135.4	130.1	121.4	122.3	122.7
72.5°	115.7	112.7	106.1	108.3	110.0
75°	97.8	96.1	92.1	95.2	97.4
77.5°	81.7	80.3	78.6	81.2	84.7
80°	66.4	65.5	65.9	67.7	71.2
82.5°	51.1	49.3	50.7	54.1	56.3
85°	34.5	33.2	34.1	37.6	38.0
87.5°	16.2	16.2	15.7	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)