

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: P290791

Luminaire Tested: **14GR-LD5-20-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290791
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-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2057.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

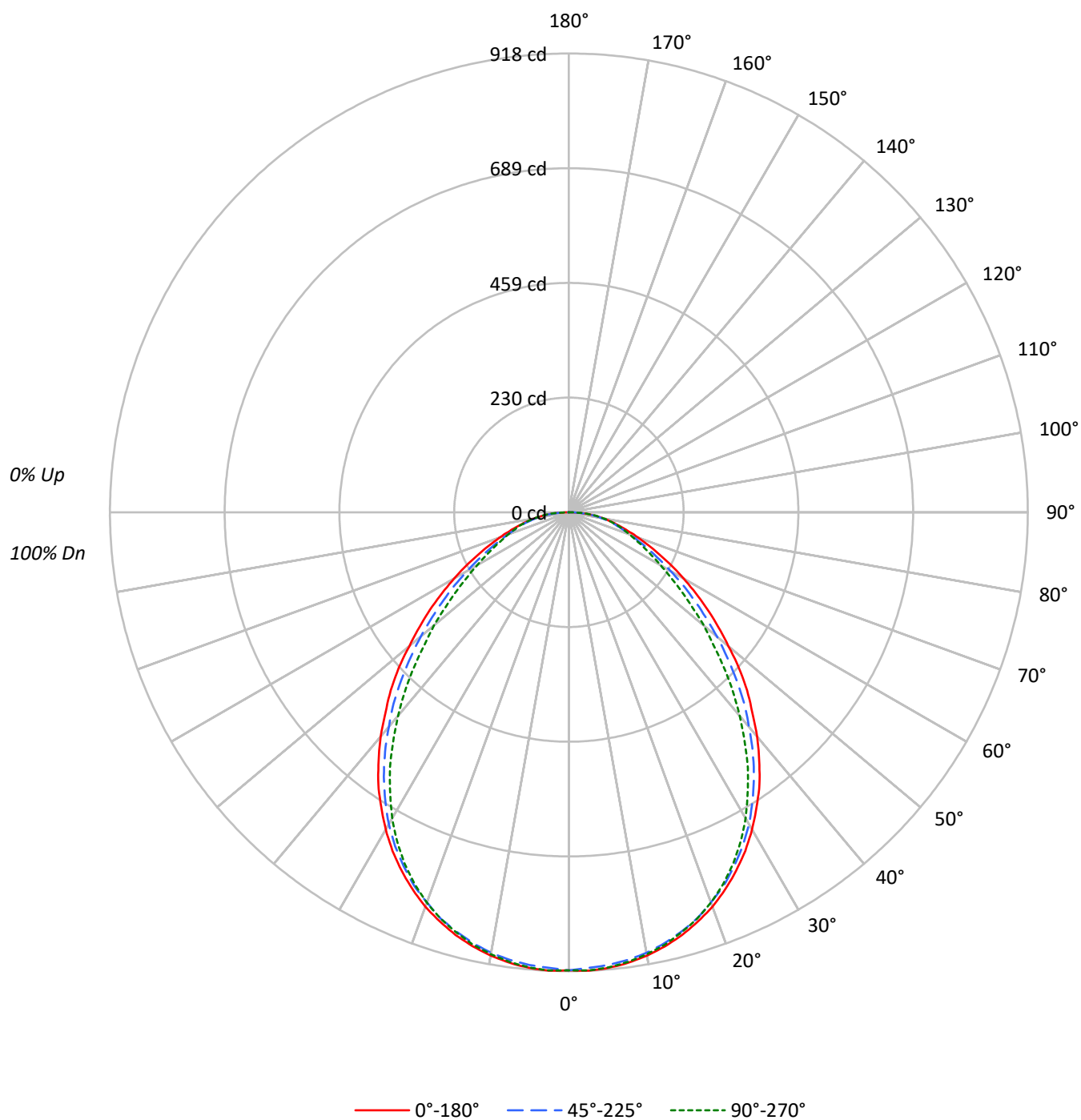
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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	88
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	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	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		51	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°	2466	2466	2466
5°	2471	2456	2469
10°	2460	2445	2453
15°	2439	2420	2424
20°	2404	2378	2379
25°	2350	2321	2305
30°	2277	2238	2196
35°	2184	2121	2051
40°	2057	1969	1866
45°	1918	1802	1668
50°	1744	1617	1474
55°	1588	1434	1285
60°	1424	1263	1141
65°	1270	1125	1048
70°	1155	1026	1014
75°	1079	999	1049
80°	1085	1032	1093
85°	1133	1059	1207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	4.2
10°-20°	245.6	11.9
20°-30°	360.2	17.5
30°-40°	402.0	19.5
40°-50°	364.0	17.7
50°-60°	274.8	13.4
60°-70°	179.6	8.7
70°-80°	105.5	5.1
80°-90°	38.6	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°	692.5	33.7
0°-40°	1094.5	53.2
0°-60°	1733.2	84.3
0°-90°	2057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	915	913	909	914	914	87
15°	875	874	869	873	870	247
25°	791	788	782	780	776	364
35°	665	659	646	631	624	414
45°	504	496	474	448	438	387
55°	338	331	306	282	274	303
65°	199	193	177	167	165	200
75°	104	101	96	98	101	111
85°	37	35	34	39	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.4	916.4	916.4	916.4	916.4
2.5°	917.8	916.4	912.0	917.8	917.3
5°	914.9	913.0	909.1	914.4	914.0
7.5°	909.1	907.2	903.3	908.2	907.2
10°	900.4	898.5	894.7	900.0	897.6
12.5°	889.3	887.4	883.1	887.9	886.0
15°	875.3	873.9	868.6	873.4	870.0
17.5°	858.4	856.0	852.2	855.1	852.6
20°	839.6	836.7	830.4	833.3	830.9
22.5°	816.9	813.1	808.7	808.7	805.3
25°	791.3	788.4	781.7	780.2	776.4
27.5°	763.8	761.4	752.7	750.3	743.5
30°	732.9	729.5	720.4	712.6	706.8
32.5°	698.6	696.2	683.7	673.5	665.3
35°	664.8	659.0	645.5	631.0	624.3
37.5°	625.2	620.9	604.0	586.1	577.0
40°	585.7	580.3	560.5	540.8	531.1
42.5°	542.7	537.9	519.0	495.4	485.2
45°	504.1	496.3	473.6	448.1	438.4
47.5°	461.6	453.4	429.2	402.2	391.1
50°	416.7	411.4	386.3	360.2	352.0
52.5°	376.6	368.4	344.7	319.1	310.4
55°	338.5	330.7	305.6	281.5	273.8
57.5°	300.3	291.6	269.9	248.2	240.4
60°	264.6	255.9	234.6	216.8	212.0
62.5°	232.2	222.6	203.7	189.7	186.4
65°	199.4	193.1	176.7	166.6	164.6
67.5°	171.9	164.2	151.1	146.3	145.3
70°	146.8	141.5	130.4	128.9	128.9
72.5°	124.1	119.7	111.5	112.5	113.9
75°	103.8	100.9	96.1	98.0	100.9
77.5°	86.4	83.5	80.6	83.5	85.5
80°	70.0	67.1	66.6	69.0	70.5
82.5°	52.6	50.2	50.7	54.6	56.0
85°	36.7	35.2	34.3	38.6	39.1
87.5°	18.8	17.9	17.4	20.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)