

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: P290789

Luminaire Tested: **14GR-LD5-20-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290789
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1946.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

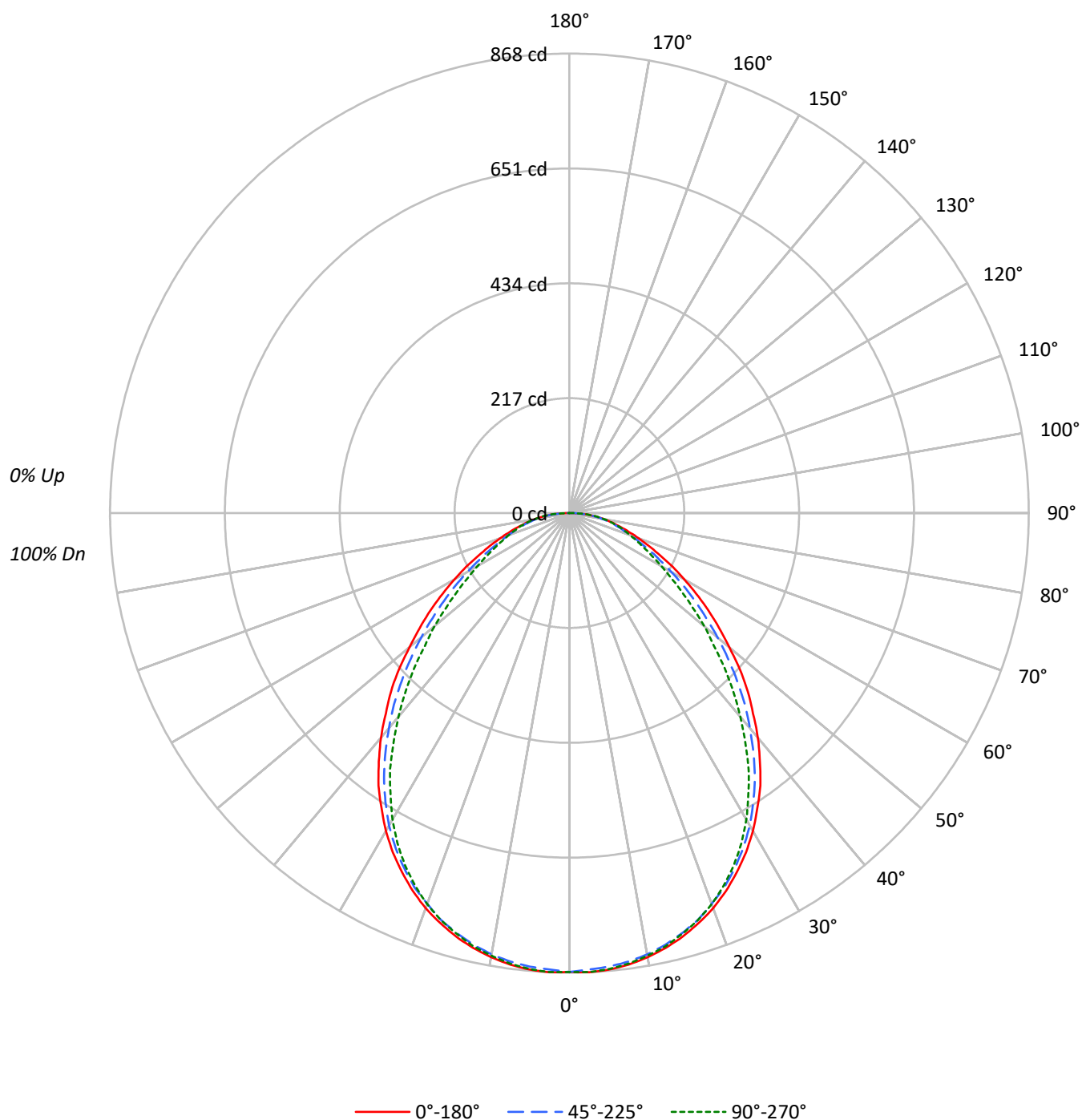
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2333	2333	2333
5°	2338	2323	2336
10°	2328	2313	2320
15°	2307	2289	2293
20°	2275	2250	2251
25°	2223	2196	2181
30°	2155	2118	2078
35°	2066	2006	1940
40°	1946	1863	1765
45°	1815	1705	1578
50°	1650	1530	1394
55°	1502	1356	1215
60°	1347	1195	1079
65°	1201	1065	992
70°	1093	970	960
75°	1021	945	993
80°	1026	976	1034
85°	1071	1000	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	4.2
10°-20°	232.4	11.9
20°-30°	340.7	17.5
30°-40°	380.3	19.5
40°-50°	344.3	17.7
50°-60°	260.0	13.4
60°-70°	170.0	8.7
70°-80°	99.8	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°	655.1	33.7
0°-40°	1035.4	53.2
0°-60°	1639.7	84.3
0°-90°	1946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	866	864	860	865	865	82
15°	828	827	822	826	823	233
25°	749	746	740	738	734	344
35°	629	624	611	597	591	392
45°	477	470	448	424	415	366
55°	320	313	289	266	259	286
65°	189	183	167	158	156	189
75°	98	96	91	93	96	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°	866.9	866.9	866.9	866.9	866.9
2.5°	868.3	866.9	862.8	868.3	867.8
5°	865.6	863.7	860.1	865.1	864.6
7.5°	860.1	858.3	854.6	859.2	858.3
10°	851.9	850.0	846.4	851.4	849.1
12.5°	841.4	839.5	835.4	840.0	838.2
15°	828.1	826.7	821.7	826.3	823.1
17.5°	812.1	809.8	806.2	808.9	806.6
20°	794.3	791.6	785.6	788.4	786.1
22.5°	772.8	769.2	765.1	765.1	761.9
25°	748.6	745.9	739.5	738.1	734.5
27.5°	722.6	720.3	712.1	709.8	703.4
30°	693.4	690.2	681.5	674.2	668.7
32.5°	660.9	658.6	646.8	637.2	629.4
35°	629.0	623.5	610.7	597.0	590.6
37.5°	591.5	587.4	571.4	554.5	545.8
40°	554.1	549.0	530.3	511.6	502.4
42.5°	513.4	508.8	491.0	468.6	459.0
45°	476.9	469.5	448.1	423.9	414.7
47.5°	436.7	428.9	406.1	380.5	370.0
50°	394.2	389.2	365.4	340.7	333.0
52.5°	356.3	348.5	326.1	301.9	293.7
55°	320.2	312.9	289.1	266.3	259.0
57.5°	284.1	275.9	255.3	234.8	227.5
60°	250.3	242.1	222.0	205.1	200.5
62.5°	219.7	210.6	192.8	179.5	176.3
65°	188.6	182.7	167.2	157.6	155.8
67.5°	162.6	155.3	143.0	138.4	137.5
70°	138.9	133.8	123.3	122.0	122.0
72.5°	117.4	113.3	105.5	106.4	107.8
75°	98.2	95.5	90.9	92.7	95.5
77.5°	81.8	79.0	76.3	79.0	80.8
80°	66.2	63.5	63.0	65.3	66.7
82.5°	49.8	47.5	48.0	51.6	53.0
85°	34.7	33.3	32.4	36.5	37.0
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)