

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: P290886

Luminaire Tested: **14GR-LD5-20-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290886
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-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1615.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

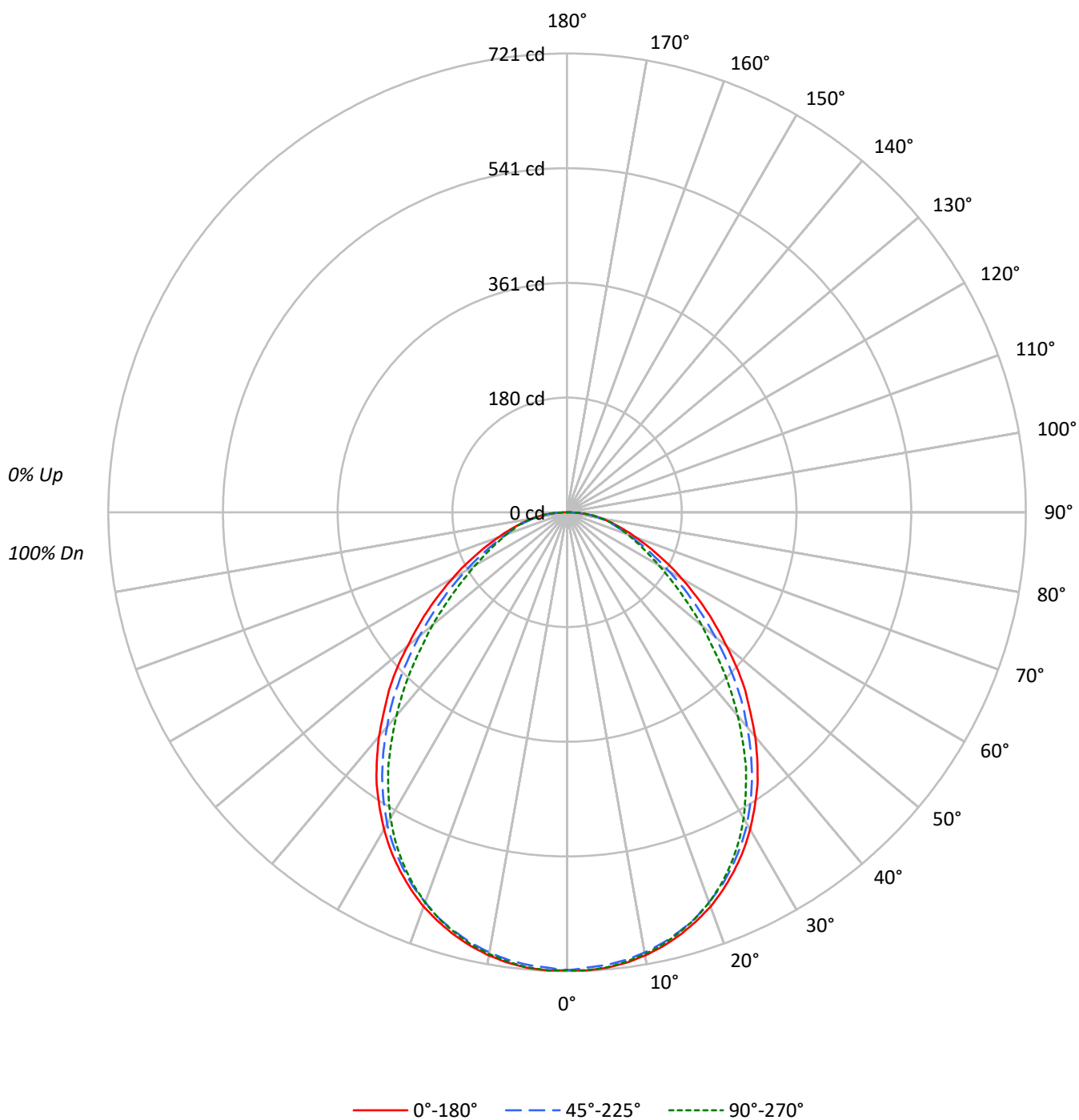
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1936	1936	1936
5°	1940	1928	1938
10°	1932	1919	1926
15°	1915	1900	1903
20°	1888	1867	1868
25°	1845	1822	1810
30°	1788	1757	1725
35°	1715	1665	1610
40°	1615	1546	1465
45°	1506	1415	1310
50°	1369	1270	1157
55°	1247	1126	1008
60°	1118	991	896
65°	997	883	823
70°	906	805	796
75°	847	784	823
80°	852	810	857
85°	889	831	948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	4.2
10°-20°	192.9	11.9
20°-30°	282.8	17.5
30°-40°	315.6	19.5
40°-50°	285.8	17.7
50°-60°	215.8	13.4
60°-70°	141.0	8.7
70°-80°	82.8	5.1
80°-90°	30.3	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°	543.7	33.7
0°-40°	859.3	53.2
0°-60°	1360.8	84.3
0°-90°	1615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	718	717	714	718	718	68
15°	687	686	682	686	683	194
25°	621	619	614	613	610	286
35°	522	517	507	495	490	325
45°	396	390	372	352	344	304
55°	266	260	240	221	215	238
65°	157	152	139	131	129	157
75°	82	79	75	77	79	88
85°	29	28	27	30	31	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.5	719.5	719.5	719.5	719.5
2.5°	720.6	719.5	716.1	720.6	720.2
5°	718.3	716.8	713.8	718.0	717.6
7.5°	713.8	712.3	709.2	713.0	712.3
10°	707.0	705.4	702.4	706.6	704.7
12.5°	698.2	696.7	693.3	697.1	695.6
15°	687.3	686.1	681.9	685.7	683.1
17.5°	674.0	672.1	669.1	671.3	669.4
20°	659.2	656.9	652.0	654.3	652.4
22.5°	641.4	638.4	634.9	634.9	632.3
25°	621.3	619.0	613.7	612.6	609.5
27.5°	599.7	597.8	591.0	589.1	583.8
30°	575.4	572.8	565.6	559.5	555.0
32.5°	548.5	546.6	536.8	528.8	522.4
35°	522.0	517.4	506.8	495.4	490.1
37.5°	490.9	487.5	474.2	460.2	453.0
40°	459.8	455.6	440.1	424.6	417.0
42.5°	426.1	422.3	407.5	388.9	381.0
45°	395.7	389.7	371.9	351.8	344.2
47.5°	362.4	355.9	337.0	315.8	307.0
50°	327.1	323.0	303.3	282.8	276.3
52.5°	295.7	289.2	270.7	250.6	243.7
55°	265.7	259.7	240.0	221.0	214.9
57.5°	235.8	229.0	211.9	194.8	188.8
60°	207.7	200.9	184.2	170.2	166.4
62.5°	182.3	174.8	160.0	149.0	146.3
65°	156.6	151.6	138.7	130.8	129.3
67.5°	134.9	128.9	118.6	114.9	114.1
70°	115.2	111.1	102.3	101.2	101.2
72.5°	97.4	94.0	87.6	88.3	89.5
75°	81.5	79.2	75.4	77.0	79.2
77.5°	67.9	65.6	63.3	65.6	67.1
80°	55.0	52.7	52.3	54.2	55.3
82.5°	41.3	39.4	39.8	42.8	44.0
85°	28.8	27.7	26.9	30.3	30.7
87.5°	14.8	14.0	13.6	16.3	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)