

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: P290926

Luminaire Tested: **14GR-LD5-36-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290926
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-LD5-36-F125-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3312.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

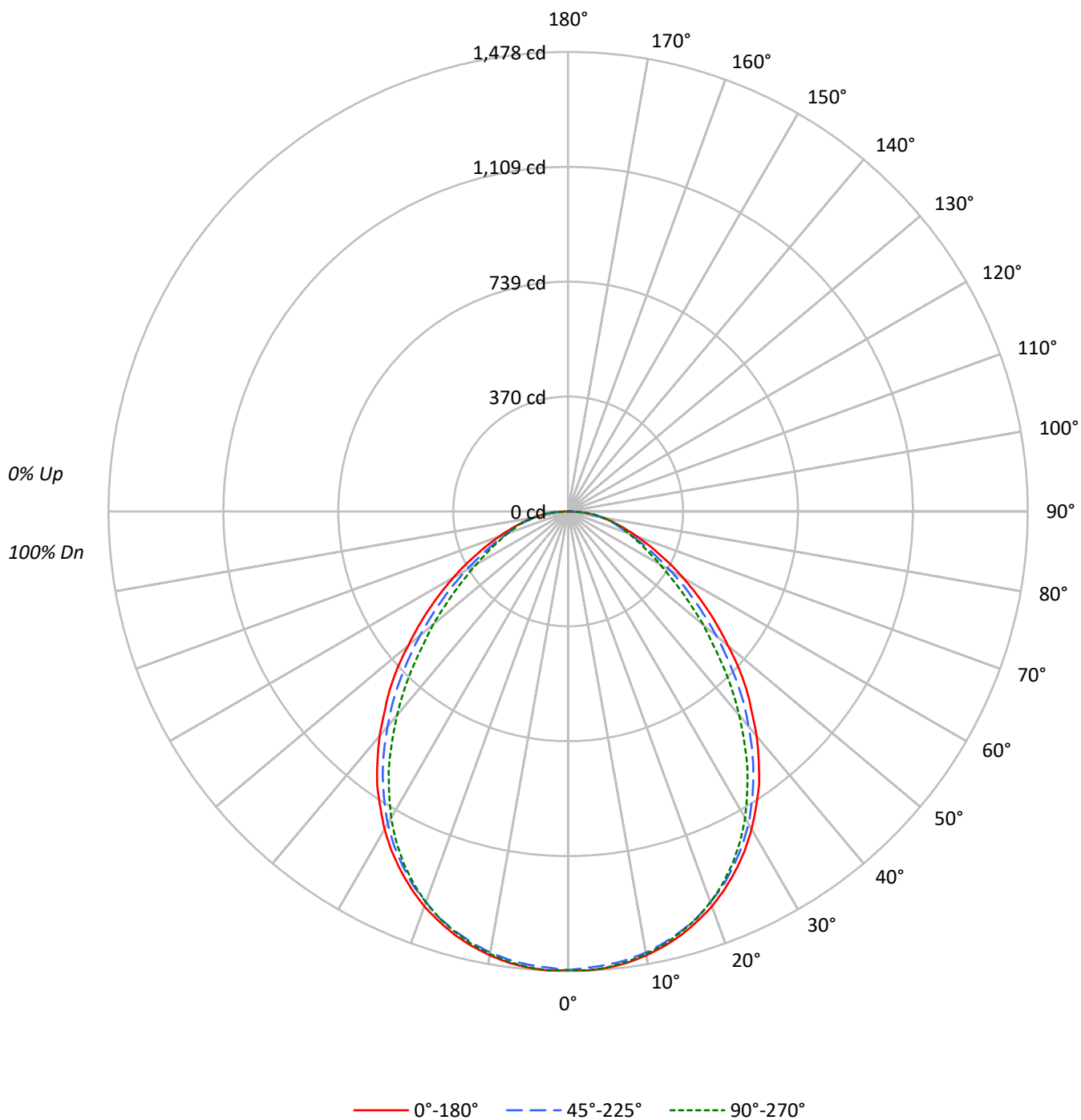
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3971	3971	3971
5°	3979	3954	3975
10°	3962	3936	3949
15°	3926	3896	3902
20°	3871	3829	3831
25°	3783	3737	3711
30°	3667	3604	3536
35°	3517	3415	3302
40°	3313	3170	3004
45°	3089	2902	2686
50°	2809	2604	2372
55°	2556	2309	2068
60°	2293	2033	1837
65°	2045	1812	1688
70°	1859	1651	1633
75°	1737	1608	1690
80°	1746	1663	1759
85°	1825	1704	1945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	4.2
10°-20°	395.5	11.9
20°-30°	579.9	17.5
30°-40°	647.3	19.5
40°-50°	586.0	17.7
50°-60°	442.5	13.4
60°-70°	289.2	8.7
70°-80°	169.9	5.1
80°-90°	62.2	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°	1115.0	33.7
0°-40°	1762.2	53.2
0°-60°	2790.7	84.3
0°-90°	3312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1473	1470	1464	1472	1472	140
15°	1409	1407	1398	1406	1401	397
25°	1274	1270	1259	1256	1250	586
35°	1070	1061	1039	1016	1005	667
45°	812	799	763	721	706	624
55°	545	532	492	453	441	488
65°	321	311	284	268	265	322
75°	167	162	155	158	162	180
85°	59	57	55	62	63	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1475.5	1475.5	1475.5	1475.5	1475.5
2.5°	1477.8	1475.5	1468.5	1477.8	1477.0
5°	1473.1	1470.0	1463.8	1472.4	1471.6
7.5°	1463.8	1460.7	1454.5	1462.3	1460.7
10°	1449.8	1446.7	1440.5	1449.0	1445.2
12.5°	1431.9	1428.8	1421.8	1429.6	1426.5
15°	1409.4	1407.1	1398.5	1406.3	1400.8
17.5°	1382.2	1378.3	1372.1	1376.7	1372.9
20°	1351.9	1347.2	1337.1	1341.8	1337.9
22.5°	1315.3	1309.1	1302.1	1302.1	1296.7
25°	1274.1	1269.5	1258.6	1256.3	1250.0
27.5°	1229.8	1225.9	1211.9	1208.1	1197.2
30°	1180.1	1174.6	1159.9	1147.4	1138.1
32.5°	1124.9	1121.0	1100.8	1084.5	1071.2
35°	1070.5	1061.1	1039.4	1016.0	1005.2
37.5°	1006.7	999.7	972.5	943.7	929.0
40°	943.0	934.4	902.5	870.7	855.1
42.5°	873.8	866.0	835.7	797.6	781.3
45°	811.6	799.2	762.6	721.4	705.9
47.5°	743.2	730.0	691.1	647.6	629.7
50°	670.9	662.3	621.9	579.9	566.7
52.5°	606.4	593.1	555.1	513.9	499.9
55°	544.9	532.5	492.1	453.2	440.8
57.5°	483.5	469.5	434.6	399.6	387.1
60°	426.0	412.0	377.8	349.0	341.3
62.5°	373.9	358.4	328.1	305.5	300.1
65°	321.1	311.0	284.5	268.2	265.1
67.5°	276.7	264.3	243.3	235.5	234.0
70°	236.3	227.8	209.9	207.6	207.6
72.5°	199.8	192.8	179.6	181.1	183.5
75°	167.1	162.5	154.7	157.8	162.5
77.5°	139.2	134.5	129.8	134.5	137.6
80°	112.7	108.1	107.3	111.2	113.5
82.5°	84.7	80.8	81.6	87.8	90.2
85°	59.1	56.7	55.2	62.2	63.0
87.5°	30.3	28.8	28.0	33.4	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)