

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: P290635

Luminaire Tested: **14GR-LD5-36-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290635  
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-LD5-36-F1-UNV-L82765-W2A1-U-5700K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH F1 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3811.0 lumens  
Efficiency: N/A  
Efficacy: 126.5 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

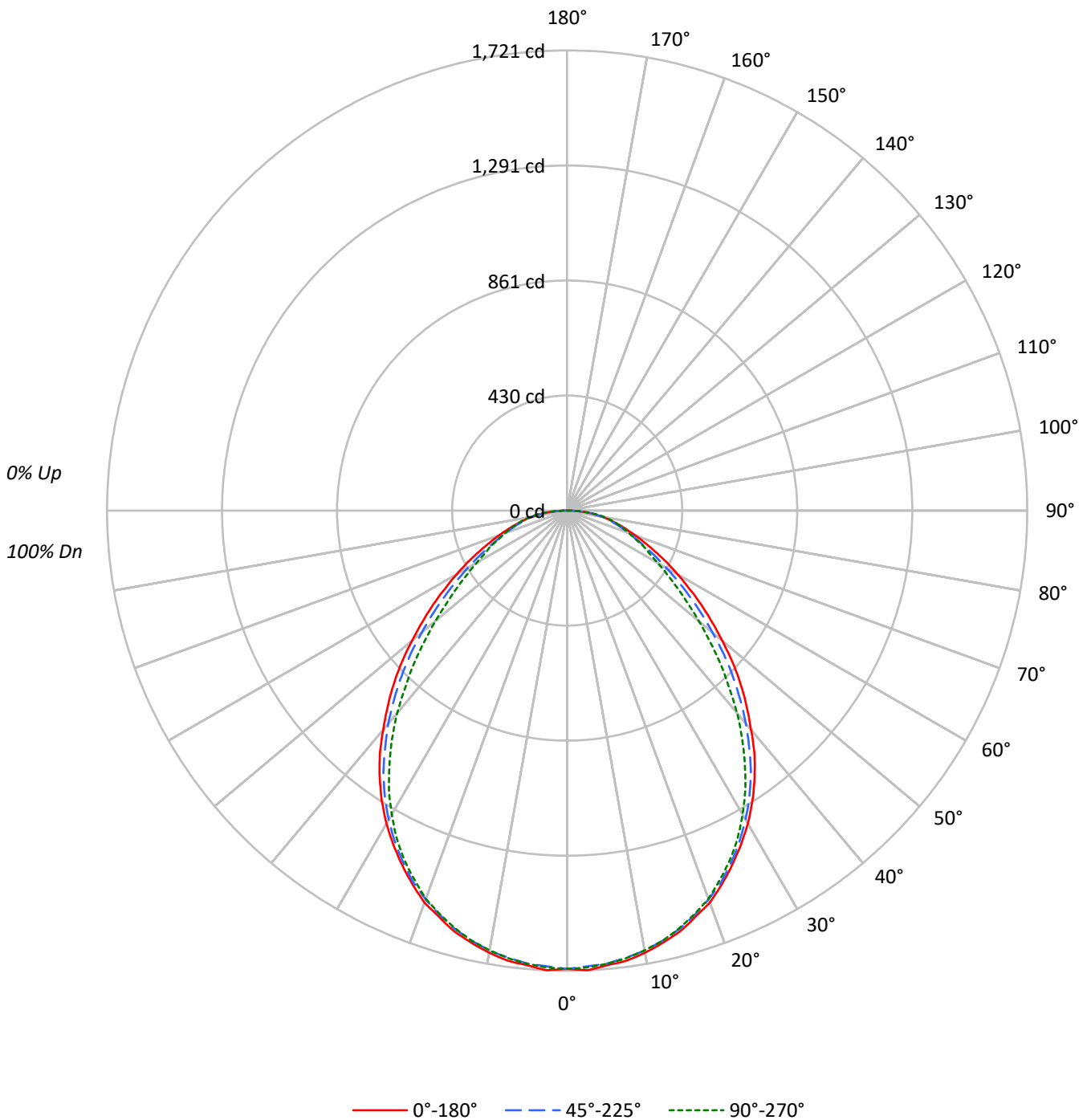
Input Watts (W): 30.132  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4612	4612	4612
5°	4611	4594	4597
10°	4588	4566	4564
15°	4541	4514	4507
20°	4468	4430	4425
25°	4339	4311	4280
30°	4199	4148	4077
35°	4015	3937	3808
40°	3759	3655	3474
45°	3491	3334	3092
50°	3167	2969	2691
55°	2865	2623	2352
60°	2571	2299	2097
65°	2308	2052	2008
70°	2131	1910	1932
75°	2035	1916	2025
80°	2058	2044	2207
85°	2130	2103	2347



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.8	4.2
10°-20°	457.4	12.0
20°-30°	668.0	17.5
30°-40°	744.3	19.5
40°-50°	670.7	17.6
50°-60°	501.3	13.2
60°-70°	330.7	8.7
70°-80°	201.9	5.3
80°-90°	74.9	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°	1287.2	33.8
0°-40°	2031.5	53.3
0°-60°	3203.5	84.1
0°-90°	3811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1707	1705	1701	1710	1702	162
15°	1630	1624	1620	1630	1618	459
25°	1461	1456	1452	1454	1441	673
35°	1222	1212	1198	1178	1159	762
45°	917	908	876	836	812	706
55°	611	601	559	513	501	547
65°	362	351	322	309	315	363
75°	196	192	184	190	195	209
85°	69	66	68	75	76	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1713.9	1713.9	1713.9	1713.9	1713.9
2.5°	1720.9	1713.0	1706.0	1716.5	1710.4
5°	1706.9	1705.2	1700.8	1709.5	1701.7
7.5°	1698.2	1692.1	1686.8	1697.3	1688.6
10°	1679.0	1675.5	1671.1	1679.8	1670.2
12.5°	1655.4	1651.9	1647.5	1658.0	1647.5
15°	1630.0	1623.9	1620.4	1630.0	1617.8
17.5°	1593.4	1590.7	1585.5	1595.1	1582.9
20°	1560.2	1550.5	1547.1	1554.0	1545.3
22.5°	1512.1	1505.1	1504.3	1508.6	1493.8
25°	1461.4	1456.2	1451.8	1454.5	1441.4
27.5°	1408.2	1401.2	1395.9	1395.1	1381.1
30°	1351.4	1342.6	1334.8	1327.8	1312.1
32.5°	1289.4	1278.9	1268.4	1257.0	1240.4
35°	1222.1	1211.6	1198.5	1177.5	1159.2
37.5°	1151.3	1139.1	1118.1	1093.7	1075.3
40°	1070.1	1064.0	1040.4	1008.9	988.9
42.5°	994.1	987.1	957.4	922.5	895.4
45°	917.2	907.6	876.2	836.0	812.4
47.5°	838.6	829.0	794.1	744.3	723.3
50°	756.5	751.3	709.3	663.9	642.9
52.5°	681.4	675.3	632.4	587.0	567.8
55°	610.6	601.0	559.1	512.8	501.4
57.5°	539.9	529.4	490.1	450.8	442.9
60°	477.8	464.7	427.2	396.6	389.6
62.5°	419.3	404.5	373.0	349.4	345.9
65°	362.5	351.2	322.3	309.2	315.4
67.5°	313.6	302.2	281.3	276.0	274.3
70°	270.8	260.3	242.8	244.6	245.5
72.5°	231.5	225.4	212.3	216.6	220.1
75°	195.7	192.2	184.3	190.4	194.8
77.5°	163.4	160.7	157.2	162.5	169.5
80°	132.8	131.0	131.9	135.4	142.4
82.5°	102.2	98.7	101.3	108.3	112.7
85°	69.0	66.4	68.1	75.1	76.0
87.5°	32.3	32.3	31.4	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)