

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: P290633

Luminaire Tested: **14GR-LD5-36-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290633
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

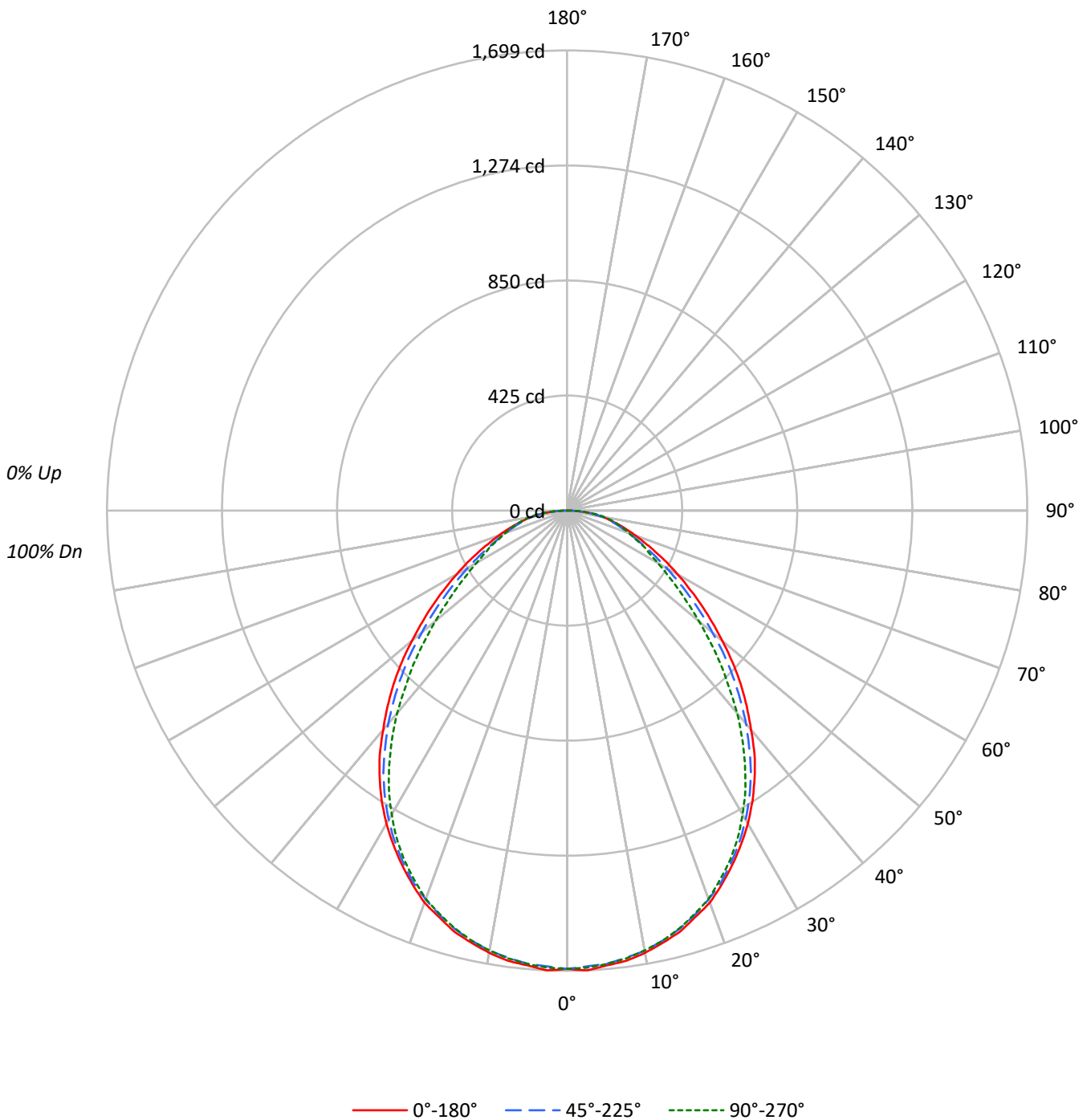
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4554	4554	4554
5°	4553	4536	4539
10°	4530	4509	4506
15°	4484	4457	4450
20°	4411	4375	4369
25°	4285	4257	4226
30°	4146	4095	4025
35°	3964	3888	3760
40°	3712	3609	3430
45°	3447	3292	3053
50°	3127	2932	2658
55°	2829	2590	2323
60°	2539	2270	2070
65°	2280	2027	1983
70°	2104	1887	1907
75°	2009	1892	1999
80°	2032	2018	2179
85°	2103	2078	2316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	4.2
10°-20°	451.6	12.0
20°-30°	659.6	17.5
30°-40°	735.0	19.5
40°-50°	662.2	17.6
50°-60°	495.0	13.2
60°-70°	326.5	8.7
70°-80°	199.3	5.3
80°-90°	74.0	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°	1271.0	33.8
0°-40°	2006.0	53.3
0°-60°	3163.2	84.1
0°-90°	3763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1685	1684	1679	1688	1680	160
15°	1610	1604	1600	1610	1597	453
25°	1443	1438	1434	1436	1423	664
35°	1207	1196	1183	1163	1145	752
45°	906	896	865	826	802	697
55°	603	593	552	506	495	540
65°	358	347	318	305	311	359
75°	193	190	182	188	192	206
85°	68	66	67	74	75	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1692.3	1692.3	1692.3	1692.3	1692.3
2.5°	1699.2	1691.5	1684.6	1694.9	1688.9
5°	1685.4	1683.7	1679.4	1688.0	1680.2
7.5°	1676.8	1670.8	1665.6	1675.9	1667.3
10°	1657.8	1654.4	1650.1	1658.7	1649.2
12.5°	1634.5	1631.1	1626.8	1637.1	1626.8
15°	1609.5	1603.5	1600.0	1609.5	1597.4
17.5°	1573.3	1570.7	1565.5	1575.0	1562.9
20°	1540.5	1531.0	1527.6	1534.5	1525.8
22.5°	1493.1	1486.2	1485.3	1489.6	1475.0
25°	1443.0	1437.9	1433.6	1436.1	1423.2
27.5°	1390.4	1383.5	1378.3	1377.5	1363.7
30°	1334.4	1325.7	1318.0	1311.1	1295.5
32.5°	1273.1	1262.8	1252.4	1241.2	1224.8
35°	1206.7	1196.4	1183.4	1162.7	1144.6
37.5°	1136.8	1124.8	1104.1	1079.9	1061.8
40°	1056.6	1050.6	1027.3	996.2	976.4
42.5°	981.6	974.7	945.4	910.8	884.1
45°	905.7	896.2	865.1	825.5	802.2
47.5°	828.0	818.6	784.1	734.9	714.2
50°	747.0	741.8	700.4	655.5	634.8
52.5°	672.8	666.7	624.5	579.6	560.7
55°	602.9	593.4	552.0	506.3	495.1
57.5°	533.1	522.7	483.9	445.1	437.3
60°	471.8	458.9	421.8	391.6	384.7
62.5°	414.0	399.4	368.3	345.0	341.6
65°	358.0	346.7	318.3	305.3	311.4
67.5°	309.7	298.4	277.7	272.6	270.8
70°	267.4	257.0	239.8	241.5	242.4
72.5°	228.6	222.5	209.6	213.9	217.4
75°	193.2	189.8	182.0	188.0	192.3
77.5°	161.3	158.7	155.3	160.4	167.3
80°	131.1	129.4	130.2	133.7	140.6
82.5°	100.9	97.5	100.1	107.0	111.3
85°	68.1	65.6	67.3	74.2	75.0
87.5°	31.9	31.9	31.1	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)