

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: P290945

Luminaire Tested: **14GR-LD5-43-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290945
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-LD5-43-F125-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4033.0 lumens
Efficiency: N/A
Efficacy: 107.9 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

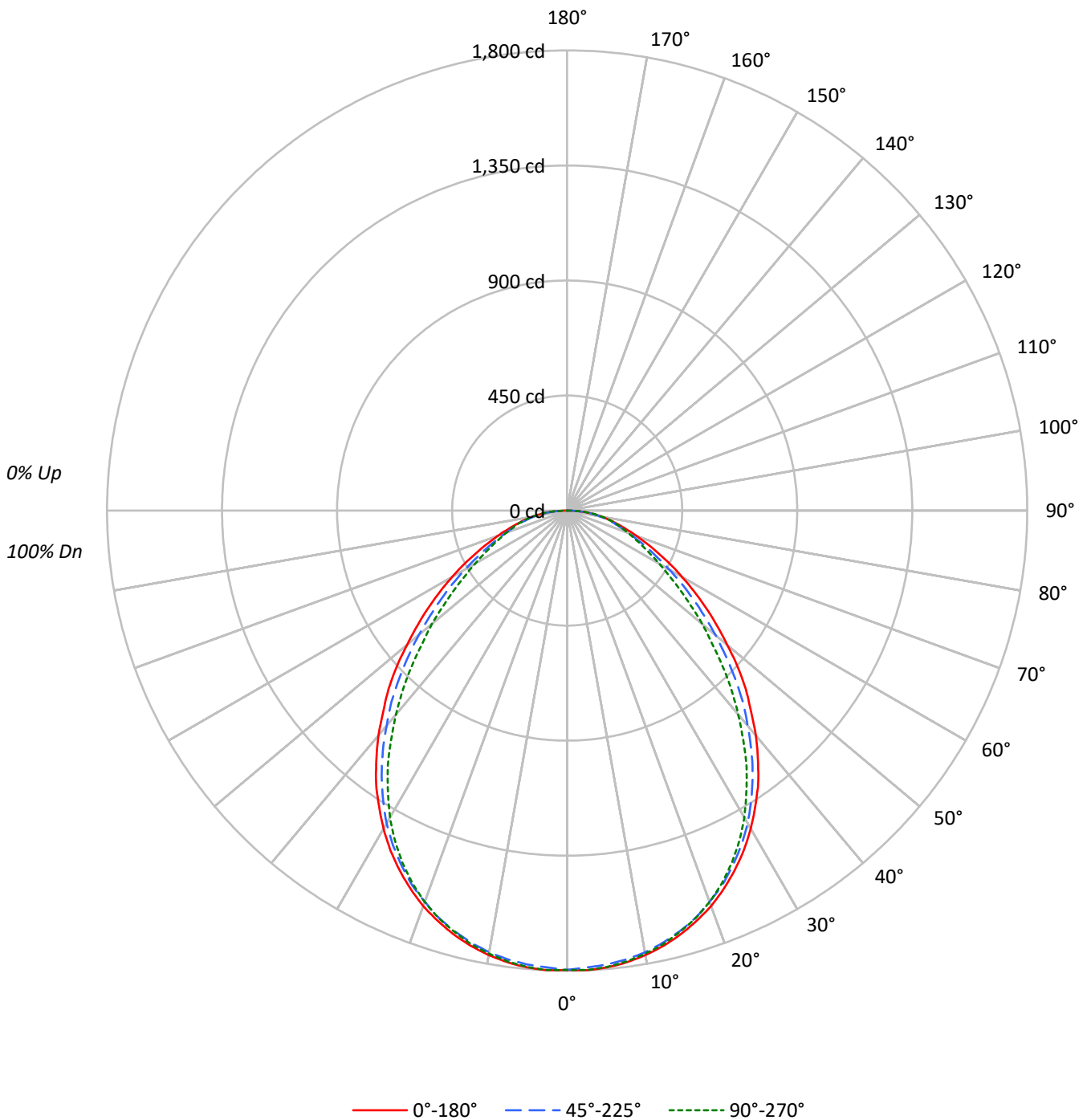
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	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	58	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	60	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	51	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	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4835	4835	4835
5°	4846	4815	4840
10°	4824	4793	4809
15°	4781	4744	4752
20°	4714	4663	4665
25°	4607	4551	4520
30°	4465	4389	4306
35°	4282	4158	4021
40°	4033	3861	3658
45°	3761	3534	3271
50°	3420	3170	2889
55°	3113	2811	2518
60°	2792	2476	2237
65°	2490	2206	2055
70°	2264	2011	1988
75°	2116	1959	2057
80°	2128	2024	2142
85°	2220	2075	2368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	4.2
10°-20°	481.6	11.9
20°-30°	706.2	17.5
30°-40°	788.2	19.5
40°-50°	713.6	17.7
50°-60°	538.8	13.4
60°-70°	352.2	8.7
70°-80°	206.9	5.1
80°-90°	75.7	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°	1357.7	33.7
0°-40°	2145.8	53.2
0°-60°	3398.2	84.3
0°-90°	4033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1794	1790	1782	1793	1792	170
15°	1716	1713	1703	1712	1706	484
25°	1552	1546	1533	1530	1522	714
35°	1304	1292	1266	1237	1224	812
45°	988	973	929	878	860	759
55°	664	648	599	552	537	594
65°	391	379	346	327	323	392
75°	204	198	188	192	198	219
85°	72	69	67	76	77	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.7	1796.7	1796.7	1796.7	1796.7
2.5°	1799.5	1796.7	1788.2	1799.5	1798.6
5°	1793.8	1790.0	1782.5	1792.9	1791.9
7.5°	1782.5	1778.7	1771.1	1780.6	1778.7
10°	1765.4	1761.7	1754.1	1764.5	1759.8
12.5°	1743.7	1739.9	1731.4	1740.8	1737.0
15°	1716.2	1713.4	1703.0	1712.4	1705.8
17.5°	1683.1	1678.3	1670.8	1676.5	1671.7
20°	1646.2	1640.5	1628.2	1633.9	1629.1
22.5°	1601.7	1594.1	1585.6	1585.6	1579.0
25°	1551.5	1545.8	1532.6	1529.7	1522.2
27.5°	1497.5	1492.8	1475.8	1471.0	1457.8
30°	1437.0	1430.3	1412.4	1397.2	1385.8
32.5°	1369.8	1365.0	1340.4	1320.5	1304.4
35°	1303.5	1292.1	1265.6	1237.2	1224.0
37.5°	1225.9	1217.3	1184.2	1149.2	1131.2
40°	1148.2	1137.8	1099.0	1060.2	1041.3
42.5°	1064.0	1054.5	1017.6	971.2	951.3
45°	988.3	973.1	928.6	878.5	859.5
47.5°	905.0	888.9	841.5	788.5	766.8
50°	816.9	806.5	757.3	706.2	690.1
52.5°	738.4	722.3	675.9	625.7	608.7
55°	663.6	648.4	599.2	551.9	536.7
57.5°	588.8	571.8	529.2	486.6	471.4
60°	518.7	501.7	460.1	425.0	415.6
62.5°	455.3	436.4	399.5	372.0	365.4
65°	391.0	378.6	346.5	326.6	322.8
67.5°	337.0	321.8	296.3	286.8	284.9
70°	287.8	277.4	255.6	252.7	252.7
72.5°	243.3	234.8	218.7	220.6	223.4
75°	203.5	197.8	188.4	192.2	197.8
77.5°	169.4	163.8	158.1	163.8	167.6
80°	137.3	131.6	130.6	135.4	138.2
82.5°	103.2	98.4	99.4	107.0	109.8
85°	71.9	69.1	67.2	75.7	76.7
87.5°	36.9	35.0	34.1	40.7	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)