

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: P290941

Luminaire Tested: **14GR-LD5-43-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290941
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.0 lumens
Efficiency: N/A
Efficacy: 98.3 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

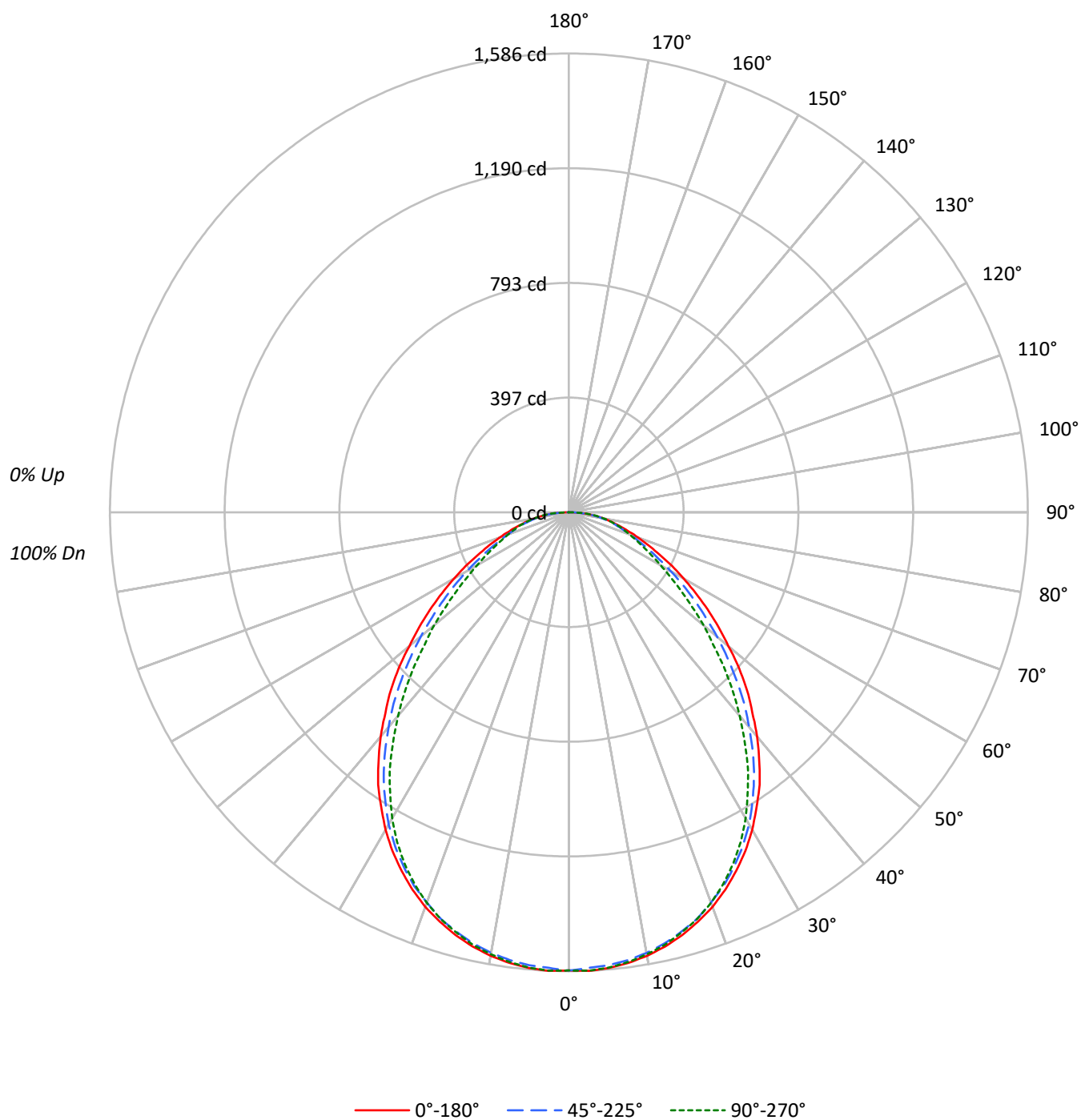
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4262	4262	4262
5°	4271	4244	4267
10°	4252	4225	4239
15°	4215	4182	4189
20°	4155	4110	4112
25°	4061	4011	3984
30°	3936	3869	3796
35°	3775	3665	3544
40°	3556	3403	3224
45°	3315	3115	2884
50°	3015	2794	2547
55°	2744	2478	2220
60°	2461	2182	1971
65°	2194	1945	1812
70°	1996	1773	1753
75°	1865	1726	1813
80°	1875	1785	1888
85°	1958	1828	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	4.2
10°-20°	424.5	11.9
20°-30°	622.5	17.5
30°-40°	694.8	19.5
40°-50°	629.0	17.7
50°-60°	474.9	13.4
60°-70°	310.5	8.7
70°-80°	182.3	5.1
80°-90°	66.8	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°	1196.8	33.7
0°-40°	1891.5	53.2
0°-60°	2995.5	84.3
0°-90°	3555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1581	1578	1571	1580	1580	150
15°	1513	1510	1501	1510	1504	426
25°	1368	1363	1351	1348	1342	629
35°	1149	1139	1116	1091	1079	716
45°	871	858	819	774	758	669
55°	585	572	528	486	473	523
65°	345	334	305	288	284	346
75°	179	174	166	169	174	193
85°	63	61	59	67	68	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.7	1583.7	1583.7	1583.7	1583.7
2.5°	1586.2	1583.7	1576.2	1586.2	1585.4
5°	1581.2	1577.9	1571.2	1580.4	1579.6
7.5°	1571.2	1567.9	1561.2	1569.5	1567.9
10°	1556.2	1552.9	1546.2	1555.4	1551.2
12.5°	1537.0	1533.7	1526.2	1534.5	1531.2
15°	1512.8	1510.3	1501.1	1509.5	1503.6
17.5°	1483.6	1479.4	1472.8	1477.8	1473.6
20°	1451.1	1446.1	1435.2	1440.2	1436.0
22.5°	1411.8	1405.2	1397.7	1397.7	1391.8
25°	1367.6	1362.6	1350.9	1348.4	1341.7
27.5°	1320.1	1315.9	1300.9	1296.7	1285.0
30°	1266.7	1260.8	1245.0	1231.6	1221.6
32.5°	1207.4	1203.2	1181.5	1164.0	1149.8
35°	1149.0	1139.0	1115.6	1090.6	1078.9
37.5°	1080.6	1073.1	1043.9	1013.0	997.1
40°	1012.2	1003.0	968.8	934.6	917.9
42.5°	937.9	929.5	897.0	856.1	838.6
45°	871.1	857.8	818.6	774.3	757.7
47.5°	797.7	783.5	741.8	695.1	675.9
50°	720.1	710.9	667.5	622.5	608.3
52.5°	650.8	636.7	595.8	551.6	536.5
55°	584.9	571.6	528.2	486.5	473.1
57.5°	519.0	504.0	466.4	428.9	415.5
60°	457.3	442.2	405.5	374.7	366.3
62.5°	401.4	384.7	352.1	327.9	322.1
65°	344.6	333.8	305.4	287.9	284.5
67.5°	297.1	283.7	261.2	252.8	251.2
70°	253.7	244.5	225.3	222.8	222.8
72.5°	214.4	206.9	192.8	194.4	196.9
75°	179.4	174.4	166.0	169.4	174.4
77.5°	149.4	144.4	139.3	144.4	147.7
80°	121.0	116.0	115.2	119.3	121.8
82.5°	91.0	86.8	87.6	94.3	96.8
85°	63.4	60.9	59.2	66.8	67.6
87.5°	32.5	30.9	30.0	35.9	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)