

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: P290680

Luminaire Tested: **14GR-LD5-40-F1-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290680
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-LD5-40-F1-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3182.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

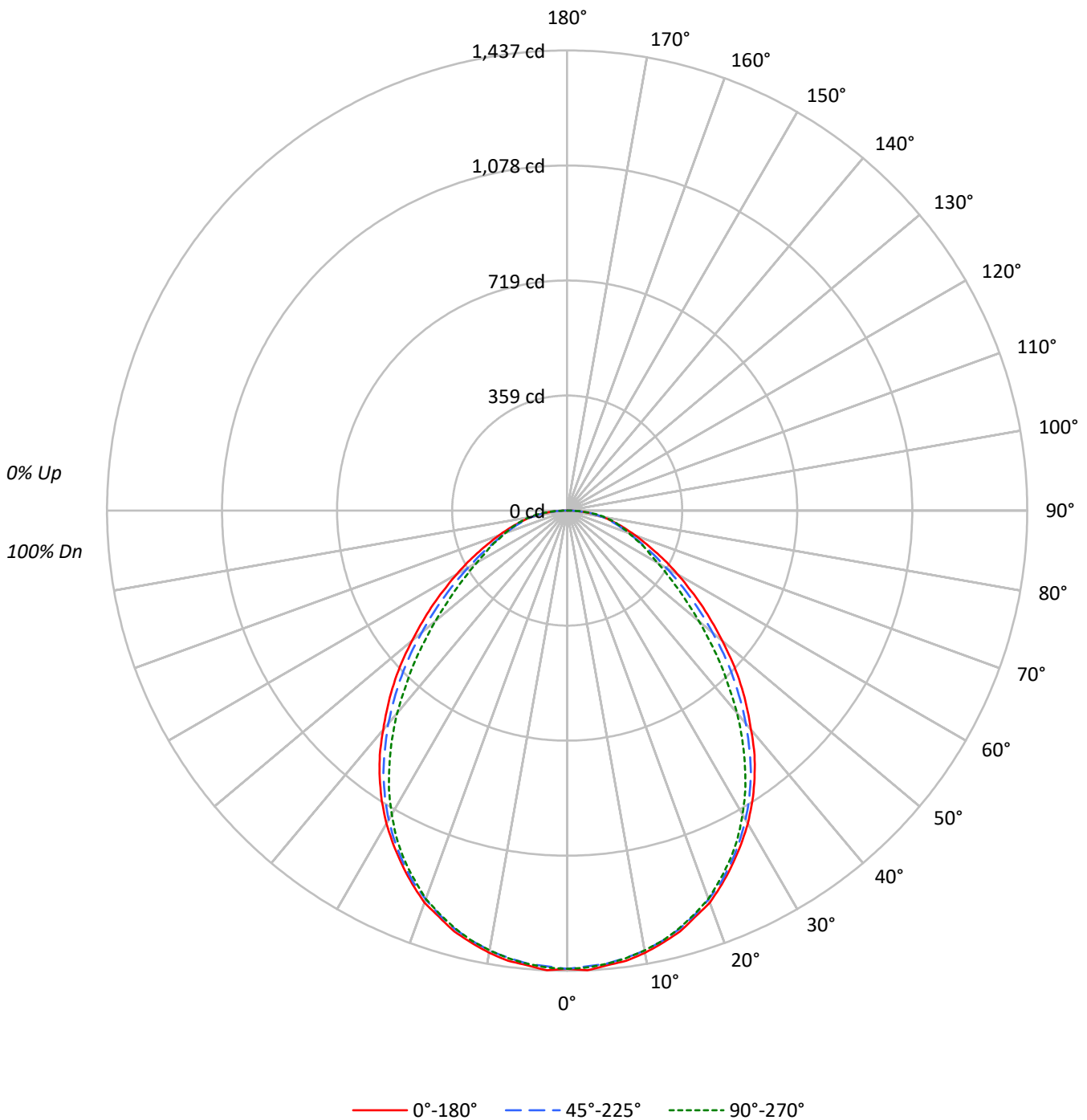
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3851	3851	3851
5°	3850	3836	3838
10°	3831	3813	3811
15°	3792	3769	3763
20°	3731	3699	3695
25°	3623	3599	3573
30°	3506	3463	3404
35°	3352	3287	3180
40°	3139	3052	2900
45°	2914	2784	2581
50°	2644	2479	2247
55°	2392	2190	1964
60°	2147	1920	1751
65°	1927	1713	1677
70°	1779	1596	1613
75°	1699	1600	1691
80°	1719	1706	1843
85°	1778	1757	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	4.2
10°-20°	381.9	12.0
20°-30°	557.7	17.5
30°-40°	621.5	19.5
40°-50°	560.0	17.6
50°-60°	418.6	13.2
60°-70°	276.1	8.7
70°-80°	168.6	5.3
80°-90°	62.5	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°	1074.7	33.8
0°-40°	1696.2	53.3
0°-60°	2674.8	84.1
0°-90°	3182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1425	1424	1420	1427	1421	135
15°	1361	1356	1353	1361	1351	383
25°	1220	1216	1212	1214	1204	562
35°	1020	1012	1001	983	968	636
45°	766	758	732	698	678	589
55°	510	502	467	428	419	457
65°	303	293	269	258	263	303
75°	163	160	154	159	163	175
85°	58	55	57	63	64	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.0	1431.0	1431.0	1431.0	1431.0
2.5°	1436.9	1430.3	1424.5	1433.2	1428.1
5°	1425.2	1423.7	1420.1	1427.4	1420.8
7.5°	1417.9	1412.8	1408.4	1417.2	1409.9
10°	1401.9	1398.9	1395.3	1402.6	1394.6
12.5°	1382.2	1379.2	1375.6	1384.3	1375.6
15°	1361.0	1355.9	1353.0	1361.0	1350.8
17.5°	1330.4	1328.2	1323.8	1331.8	1321.6
20°	1302.7	1294.6	1291.7	1297.6	1290.3
22.5°	1262.5	1256.7	1256.0	1259.6	1247.2
25°	1220.2	1215.9	1212.2	1214.4	1203.5
27.5°	1175.7	1169.9	1165.5	1164.8	1153.1
30°	1128.3	1121.0	1114.5	1108.6	1095.5
32.5°	1076.6	1067.8	1059.0	1049.6	1035.7
35°	1020.4	1011.6	1000.7	983.2	967.9
37.5°	961.3	951.1	933.6	913.2	897.9
40°	893.5	888.4	868.7	842.4	825.6
42.5°	830.0	824.2	799.4	770.2	747.6
45°	765.8	757.8	731.6	698.0	678.3
47.5°	700.2	692.2	663.0	621.4	603.9
50°	631.6	627.3	592.2	554.3	536.8
52.5°	568.9	563.8	528.1	490.1	474.1
55°	509.8	501.8	466.8	428.1	418.7
57.5°	450.8	442.0	409.2	376.4	369.8
60°	399.0	388.0	356.7	331.1	325.3
62.5°	350.1	337.7	311.4	291.7	288.8
65°	302.7	293.2	269.1	258.2	263.3
67.5°	261.8	252.4	234.9	230.5	229.0
70°	226.1	217.4	202.8	204.2	205.0
72.5°	193.3	188.2	177.2	180.9	183.8
75°	163.4	160.5	153.9	159.0	162.6
77.5°	136.4	134.2	131.3	135.7	141.5
80°	110.9	109.4	110.1	113.1	118.9
82.5°	85.3	82.4	84.6	90.4	94.1
85°	57.6	55.4	56.9	62.7	63.5
87.5°	27.0	27.0	26.3	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)