

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: P290643

Luminaire Tested: **14GR-LD5-40-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290643
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-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4253.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

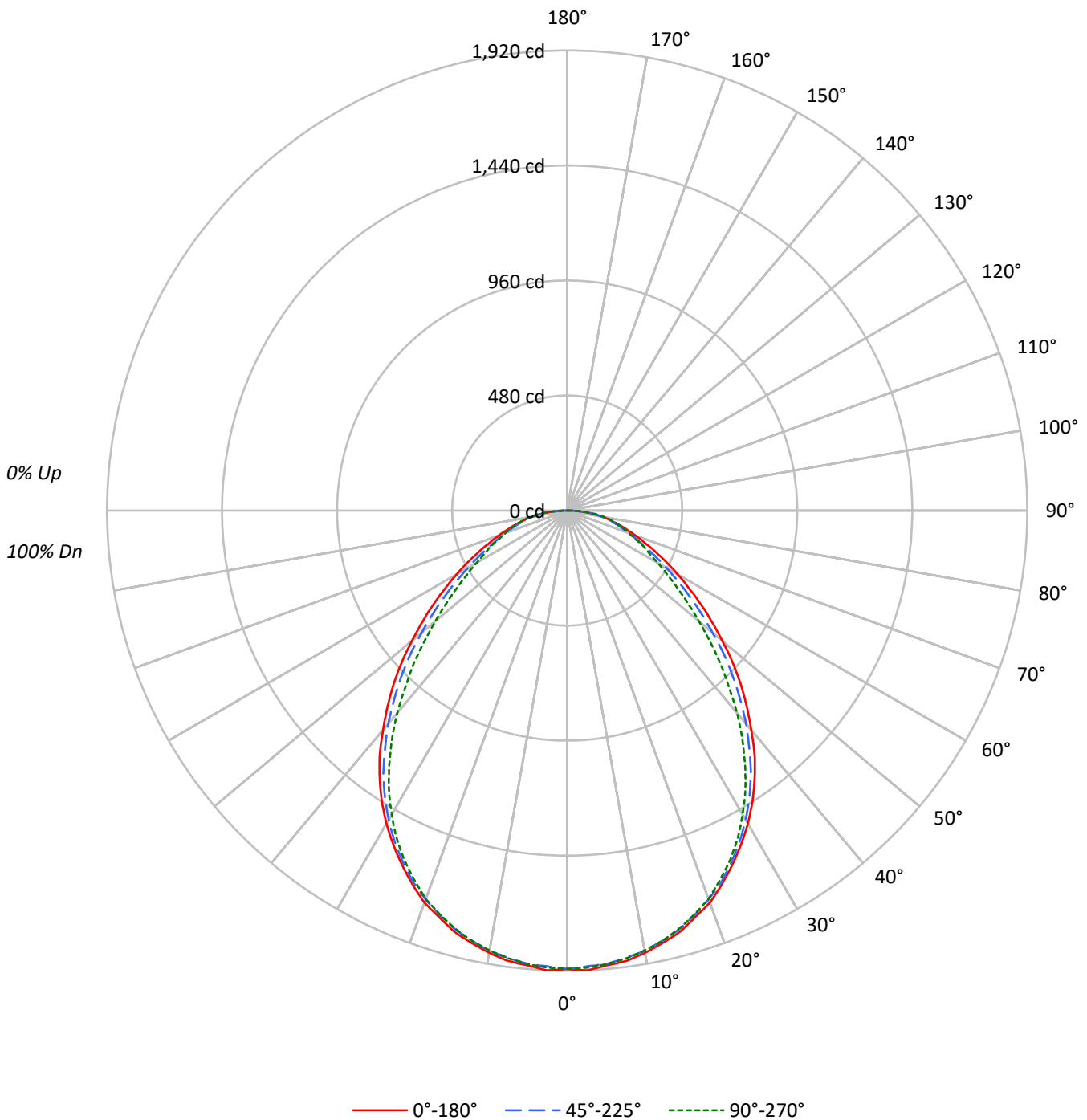
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5147	5147	5147
5°	5146	5127	5130
10°	5120	5096	5093
15°	5068	5038	5030
20°	4986	4944	4938
25°	4842	4811	4776
30°	4686	4629	4550
35°	4480	4394	4250
40°	4195	4079	3876
45°	3895	3721	3450
50°	3534	3314	3004
55°	3197	2927	2625
60°	2870	2566	2340
65°	2576	2290	2241
70°	2378	2132	2155
75°	2271	2139	2260
80°	2297	2281	2462
85°	2377	2347	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	4.2
10°-20°	510.5	12.0
20°-30°	745.5	17.5
30°-40°	830.7	19.5
40°-50°	748.5	17.6
50°-60°	559.5	13.2
60°-70°	369.1	8.7
70°-80°	225.3	5.3
80°-90°	83.6	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°	1436.5	33.8
0°-40°	2267.2	53.3
0°-60°	3575.1	84.1
0°-90°	4253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1905	1903	1898	1908	1899	181
15°	1819	1812	1808	1819	1805	512
25°	1631	1625	1620	1623	1608	751
35°	1364	1352	1338	1314	1294	850
45°	1024	1013	978	933	907	788
55°	681	671	624	572	560	610
65°	405	392	360	345	352	406
75°	218	214	206	212	217	233
85°	77	74	76	84	85	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.7	1912.7	1912.7	1912.7	1912.7
2.5°	1920.5	1911.7	1903.9	1915.6	1908.8
5°	1904.9	1902.9	1898.1	1907.8	1899.0
7.5°	1895.1	1888.3	1882.5	1894.2	1884.4
10°	1873.7	1869.8	1864.9	1874.7	1863.9
12.5°	1847.4	1843.5	1838.6	1850.3	1838.6
15°	1819.1	1812.3	1808.4	1819.1	1805.4
17.5°	1778.2	1775.2	1769.4	1780.1	1766.5
20°	1741.1	1730.4	1726.5	1734.3	1724.5
22.5°	1687.5	1679.7	1678.7	1683.6	1667.0
25°	1630.9	1625.1	1620.2	1623.1	1608.5
27.5°	1571.5	1563.7	1557.8	1556.9	1541.3
30°	1508.1	1498.4	1489.6	1481.8	1464.2
32.5°	1438.9	1427.2	1415.5	1402.8	1384.3
35°	1363.8	1352.1	1337.5	1314.1	1293.6
37.5°	1284.9	1271.2	1247.8	1220.5	1200.1
40°	1194.2	1187.4	1161.1	1126.0	1103.5
42.5°	1109.4	1101.6	1068.5	1029.5	999.2
45°	1023.6	1012.9	977.8	932.9	906.6
47.5°	935.9	925.1	886.2	830.6	807.2
50°	844.2	838.4	791.6	740.9	717.5
52.5°	760.4	753.6	705.8	655.1	633.7
55°	681.4	670.7	623.9	572.2	559.6
57.5°	602.5	590.8	546.9	503.0	494.3
60°	533.3	518.6	476.7	442.6	434.8
62.5°	467.9	451.4	416.3	389.9	386.0
65°	404.6	391.9	359.7	345.1	351.9
67.5°	350.0	337.3	313.9	308.1	306.1
70°	302.2	290.5	271.0	273.0	273.9
72.5°	258.3	251.5	236.9	241.8	245.7
75°	218.4	214.5	205.7	212.5	217.4
77.5°	182.3	179.4	175.5	181.3	189.1
80°	148.2	146.2	147.2	151.1	158.9
82.5°	114.1	110.2	113.1	120.9	125.8
85°	77.0	74.1	76.0	83.8	84.8
87.5°	36.1	36.1	35.1	40.9	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)