

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: P290781

Luminaire Tested: **14GR-LD5-40-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290781
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-LD5-40-F125-UNV-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4335.0 lumens
Efficiency: N/A
Efficacy: 122.7 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

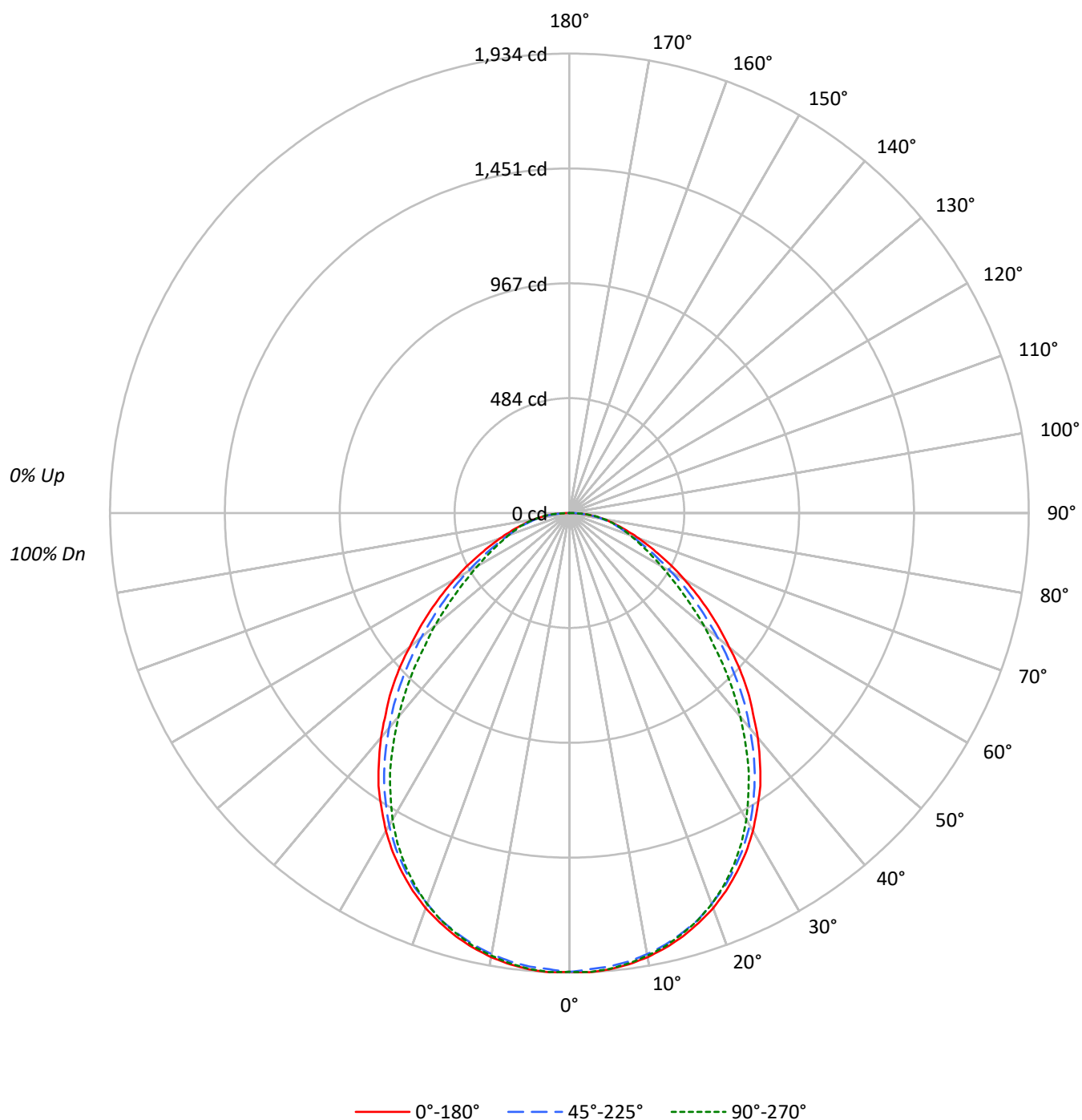
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5197	5197	5197
5°	5209	5176	5203
10°	5185	5152	5169
15°	5139	5100	5108
20°	5067	5012	5015
25°	4952	4891	4858
30°	4799	4717	4629
35°	4603	4469	4322
40°	4336	4150	3932
45°	4043	3799	3516
50°	3676	3408	3105
55°	3347	3022	2707
60°	3001	2661	2404
65°	2676	2371	2209
70°	2434	2161	2138
75°	2275	2105	2211
80°	2286	2176	2303
85°	2387	2229	2544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	4.2
10°-20°	517.7	11.9
20°-30°	759.0	17.5
30°-40°	847.2	19.5
40°-50°	767.0	17.7
50°-60°	579.2	13.4
60°-70°	378.6	8.7
70°-80°	222.3	5.1
80°-90°	81.4	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°	1459.3	33.7
0°-40°	2306.5	53.2
0°-60°	3652.7	84.3
0°-90°	4335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1928	1924	1916	1927	1926	183
15°	1845	1842	1830	1841	1834	520
25°	1668	1662	1647	1644	1636	767
35°	1401	1389	1360	1330	1316	873
45°	1062	1046	998	944	924	816
55°	713	697	644	593	577	638
65°	420	407	372	351	347	422
75°	219	213	202	207	213	235
85°	77	74	72	81	82	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1934.3	1931.2	1922.1	1934.3	1933.3
5°	1928.2	1924.1	1916.0	1927.1	1926.1
7.5°	1916.0	1911.9	1903.7	1913.9	1911.9
10°	1897.6	1893.6	1885.4	1896.6	1891.5
12.5°	1874.2	1870.2	1861.0	1871.2	1867.1
15°	1844.7	1841.7	1830.5	1840.7	1833.5
17.5°	1809.1	1804.0	1795.9	1802.0	1796.9
20°	1769.4	1763.3	1750.1	1756.2	1751.1
22.5°	1721.6	1713.5	1704.3	1704.3	1697.2
25°	1667.7	1661.6	1647.3	1644.3	1636.1
27.5°	1609.7	1604.6	1586.3	1581.2	1567.0
30°	1544.6	1537.4	1518.1	1501.8	1489.6
32.5°	1472.3	1467.2	1440.8	1419.4	1402.1
35°	1401.1	1388.9	1360.4	1329.9	1315.6
37.5°	1317.7	1308.5	1272.9	1235.2	1215.9
40°	1234.2	1223.0	1181.3	1139.6	1119.3
42.5°	1143.7	1133.5	1093.8	1044.0	1022.6
45°	1062.3	1046.0	998.2	944.2	923.9
47.5°	972.7	955.4	904.6	847.6	824.2
50°	878.1	866.9	814.0	759.1	741.8
52.5°	793.7	776.4	726.5	672.6	654.3
55°	713.3	697.0	644.1	593.2	576.9
57.5°	632.9	614.6	568.8	523.0	506.7
60°	557.6	539.3	494.5	456.9	446.7
62.5°	489.4	469.1	429.4	399.9	392.8
65°	420.2	407.0	372.4	351.0	347.0
67.5°	362.2	346.0	318.5	308.3	306.3
70°	309.3	298.1	274.7	271.7	271.7
72.5°	261.5	252.3	235.0	237.1	240.1
75°	218.8	212.7	202.5	206.6	212.7
77.5°	182.1	176.0	169.9	176.0	180.1
80°	147.5	141.4	140.4	145.5	148.6
82.5°	110.9	105.8	106.8	115.0	118.0
85°	77.3	74.3	72.2	81.4	82.4
87.5°	39.7	37.6	36.6	43.8	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)