

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: P290850

Luminaire Tested: **14GR-LD5-43-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290850
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-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4561.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

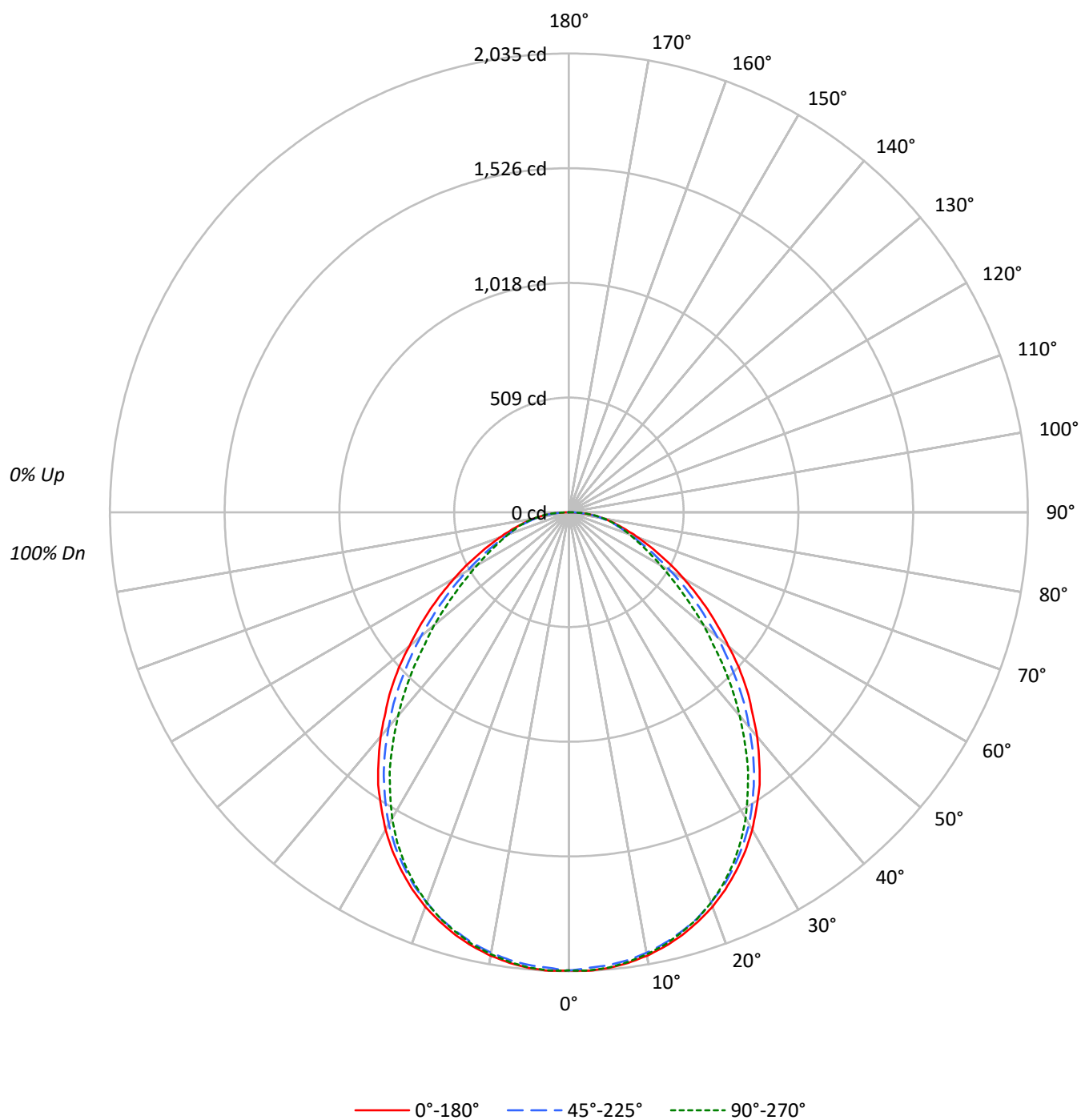
Input Watts (W): 38.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5468	5468	5468
5°	5480	5445	5474
10°	5456	5420	5438
15°	5407	5365	5374
20°	5331	5273	5276
25°	5210	5146	5111
30°	5050	4963	4870
35°	4843	4702	4547
40°	4562	4366	4137
45°	4254	3997	3699
50°	3868	3585	3267
55°	3521	3179	2848
60°	3158	2800	2530
65°	2815	2495	2325
70°	2560	2274	2249
75°	2393	2215	2326
80°	2405	2289	2422
85°	2513	2347	2677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	4.2
10°-20°	544.7	11.9
20°-30°	798.6	17.5
30°-40°	891.3	19.5
40°-50°	807.0	17.7
50°-60°	609.3	13.4
60°-70°	398.3	8.7
70°-80°	233.9	5.1
80°-90°	85.6	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°	1535.4	33.7
0°-40°	2426.8	53.2
0°-60°	3843.1	84.3
0°-90°	4561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	2029	2024	2016	2028	2026	193
15°	1941	1938	1926	1937	1929	547
25°	1755	1748	1733	1730	1721	807
35°	1474	1461	1431	1399	1384	918
45°	1118	1100	1050	994	972	859
55°	750	733	678	624	607	671
65°	442	428	392	369	365	444
75°	230	224	213	217	224	247
85°	81	78	76	86	87	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2031.9	2031.9	2031.9	2031.9	2031.9
2.5°	2035.1	2031.9	2022.3	2035.1	2034.0
5°	2028.7	2024.4	2015.8	2027.6	2026.5
7.5°	2015.8	2011.6	2003.0	2013.7	2011.6
10°	1996.6	1992.3	1983.7	1995.5	1990.1
12.5°	1971.9	1967.7	1958.0	1968.7	1964.5
15°	1940.9	1937.7	1925.9	1936.6	1929.1
17.5°	1903.4	1898.1	1889.5	1895.9	1890.6
20°	1861.7	1855.3	1841.3	1847.8	1842.4
22.5°	1811.4	1802.8	1793.2	1793.2	1785.7
25°	1754.6	1748.2	1733.2	1730.0	1721.4
27.5°	1693.6	1688.3	1669.0	1663.6	1648.6
30°	1625.1	1617.6	1597.3	1580.1	1567.3
32.5°	1549.1	1543.7	1515.9	1493.4	1475.2
35°	1474.1	1461.3	1431.3	1399.2	1384.2
37.5°	1386.4	1376.7	1339.3	1299.6	1279.3
40°	1298.6	1286.8	1242.9	1199.0	1177.6
42.5°	1203.3	1192.6	1150.8	1098.4	1075.9
45°	1117.7	1100.5	1050.2	993.5	972.1
47.5°	1023.4	1005.2	951.7	891.8	867.1
50°	923.9	912.1	856.4	798.6	780.4
52.5°	835.0	816.8	764.4	707.6	688.4
55°	750.5	733.3	677.7	624.1	607.0
57.5°	665.9	646.6	598.4	550.3	533.1
60°	586.7	567.4	520.3	480.7	470.0
62.5°	514.9	493.5	451.8	420.7	413.2
65°	442.1	428.2	391.8	369.3	365.1
67.5°	381.1	364.0	335.1	324.4	322.2
70°	325.4	313.7	289.0	285.8	285.8
72.5°	275.1	265.5	247.3	249.4	252.6
75°	230.2	223.7	213.0	217.3	223.7
77.5°	191.6	185.2	178.8	185.2	189.5
80°	155.2	148.8	147.7	153.1	156.3
82.5°	116.7	111.3	112.4	121.0	124.2
85°	81.4	78.1	76.0	85.6	86.7
87.5°	41.8	39.6	38.5	46.0	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)