

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: P290707

Luminaire Tested: **14GR-LD5-24-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290707
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-LD5-24-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2290.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

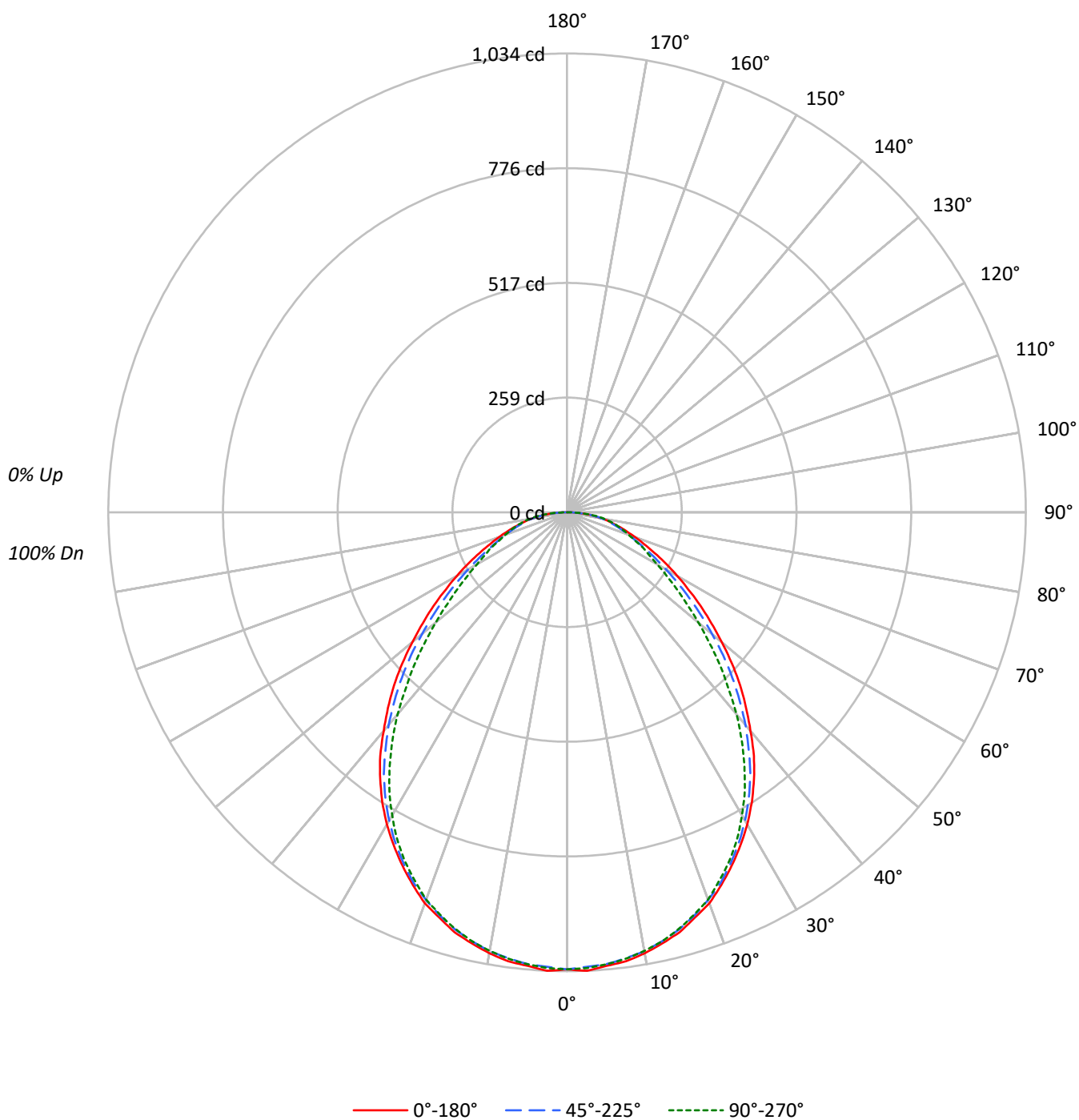
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	2771	2771	2771
5°	2771	2761	2762
10°	2757	2744	2742
15°	2729	2713	2708
20°	2685	2662	2659
25°	2608	2590	2572
30°	2523	2492	2450
35°	2412	2366	2288
40°	2259	2196	2087
45°	2098	2004	1858
50°	1903	1784	1617
55°	1721	1576	1414
60°	1545	1382	1260
65°	1387	1233	1207
70°	1280	1148	1161
75°	1223	1152	1218
80°	1237	1229	1327
85°	1281	1263	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	4.2
10°-20°	274.9	12.0
20°-30°	401.4	17.5
30°-40°	447.3	19.5
40°-50°	403.0	17.6
50°-60°	301.2	13.2
60°-70°	198.7	8.7
70°-80°	121.3	5.3
80°-90°	45.0	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°	773.5	33.8
0°-40°	1220.8	53.3
0°-60°	1925.0	84.1
0°-90°	2290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1026	1025	1022	1027	1022	97
15°	980	976	974	980	972	276
25°	878	875	872	874	866	404
35°	734	728	720	708	697	458
45°	551	545	526	502	488	424
55°	367	361	336	308	301	329
65°	218	211	194	186	190	218
75°	118	116	111	114	117	126
85°	42	40	41	45	46	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.9	1029.9	1029.9	1029.9	1029.9
2.5°	1034.1	1029.3	1025.1	1031.4	1027.8
5°	1025.7	1024.6	1022.0	1027.2	1022.5
7.5°	1020.4	1016.7	1013.6	1019.9	1014.6
10°	1008.9	1006.8	1004.2	1009.4	1003.6
12.5°	994.7	992.6	990.0	996.3	990.0
15°	979.5	975.8	973.7	979.5	972.1
17.5°	957.4	955.9	952.7	958.5	951.1
20°	937.5	931.7	929.6	933.8	928.6
22.5°	908.6	904.4	903.9	906.5	897.6
25°	878.2	875.0	872.4	874.0	866.1
27.5°	846.2	842.0	838.8	838.3	829.9
30°	812.0	806.8	802.1	797.9	788.4
32.5°	774.8	768.5	762.2	755.3	745.4
35°	734.3	728.0	720.2	707.6	696.6
37.5°	691.8	684.5	671.9	657.2	646.2
40°	643.0	639.3	625.2	606.3	594.2
42.5°	597.3	593.1	575.3	554.3	538.0
45°	551.2	545.4	526.5	502.3	488.2
47.5°	503.9	498.1	477.1	447.2	434.6
50°	454.6	451.4	426.2	398.9	386.3
52.5°	409.4	405.8	380.0	352.7	341.2
55°	366.9	361.1	335.9	308.1	301.3
57.5°	324.4	318.1	294.5	270.9	266.1
60°	287.1	279.3	256.7	238.3	234.1
62.5°	252.0	243.0	224.1	210.0	207.9
65°	217.8	211.0	193.7	185.8	189.5
67.5°	188.4	181.6	169.0	165.9	164.8
70°	162.7	156.4	145.9	147.0	147.5
72.5°	139.1	135.4	127.6	130.2	132.3
75°	117.6	115.5	110.8	114.4	117.1
77.5°	98.2	96.6	94.5	97.6	101.8
80°	79.8	78.7	79.3	81.4	85.6
82.5°	61.4	59.3	60.9	65.1	67.7
85°	41.5	39.9	40.9	45.1	45.7
87.5°	19.4	19.4	18.9	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)