

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: P290602

Luminaire Tested: **14GR-LD5-24-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290602
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-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2278.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

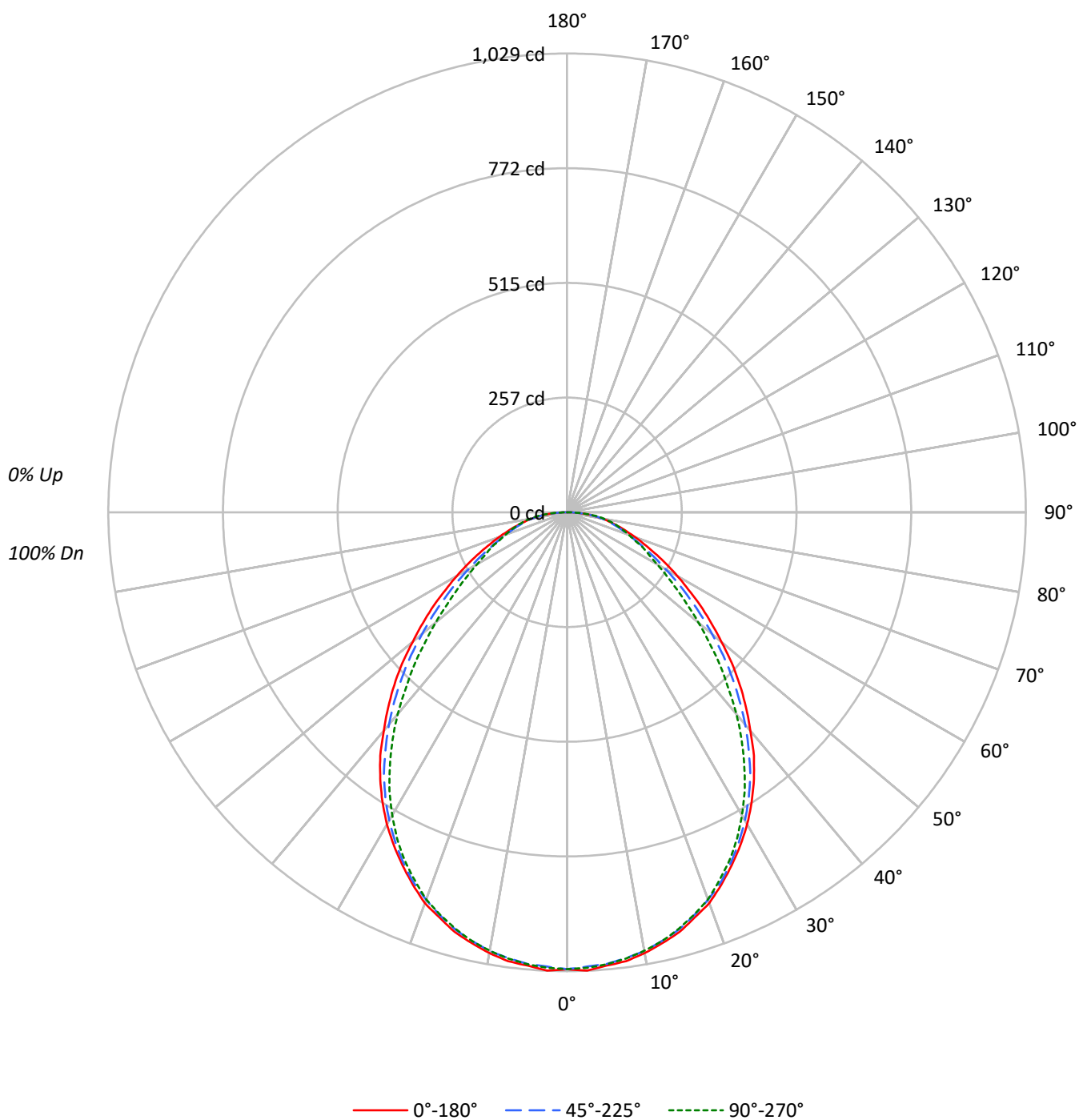
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		48
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		38
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2757	2757	2757
5°	2756	2746	2748
10°	2742	2729	2728
15°	2714	2698	2694
20°	2671	2648	2645
25°	2594	2577	2558
30°	2510	2479	2437
35°	2400	2353	2276
40°	2247	2185	2076
45°	2087	1993	1848
50°	1893	1775	1609
55°	1712	1568	1406
60°	1537	1374	1253
65°	1380	1227	1200
70°	1274	1142	1154
75°	1216	1146	1210
80°	1230	1221	1319
85°	1275	1257	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	4.2
10°-20°	273.4	12.0
20°-30°	399.3	17.5
30°-40°	444.9	19.5
40°-50°	400.9	17.6
50°-60°	299.7	13.2
60°-70°	197.7	8.7
70°-80°	120.7	5.3
80°-90°	44.8	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°	769.4	33.8
0°-40°	1214.3	53.3
0°-60°	1914.9	84.1
0°-90°	2278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1020	1019	1017	1022	1017	97
15°	974	971	969	974	967	274
25°	874	870	868	869	862	402
35°	730	724	716	704	693	455
45°	548	542	524	500	486	422
55°	365	359	334	306	300	327
65°	217	210	193	185	188	217
75°	117	115	110	114	116	125
85°	41	40	41	45	45	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.5	1024.5	1024.5	1024.5	1024.5
2.5°	1028.7	1024.0	1019.8	1026.0	1022.4
5°	1020.3	1019.3	1016.6	1021.9	1017.2
7.5°	1015.1	1011.4	1008.3	1014.6	1009.3
10°	1003.6	1001.5	998.9	1004.1	998.4
12.5°	989.5	987.4	984.8	991.1	984.8
15°	974.3	970.7	968.6	974.3	967.0
17.5°	952.4	950.8	947.7	953.5	946.2
20°	932.6	926.8	924.7	928.9	923.7
22.5°	903.9	899.7	899.2	901.8	892.9
25°	873.6	870.4	867.8	869.4	861.6
27.5°	841.7	837.5	834.4	833.9	825.5
30°	807.8	802.6	797.9	793.7	784.3
32.5°	770.7	764.4	758.2	751.4	741.5
35°	730.5	724.2	716.4	703.9	692.9
37.5°	688.2	680.9	668.4	653.7	642.8
40°	639.6	636.0	621.9	603.1	591.1
42.5°	594.2	590.0	572.3	551.4	535.2
45°	548.3	542.5	523.7	499.7	485.6
47.5°	501.3	495.5	474.6	444.9	432.3
50°	452.2	449.1	424.0	396.8	384.3
52.5°	407.3	403.6	378.0	350.9	339.4
55°	365.0	359.2	334.2	306.5	299.7
57.5°	322.7	316.4	292.9	269.4	264.7
60°	285.6	277.8	255.3	237.1	232.9
62.5°	250.6	241.8	223.0	208.9	206.8
65°	216.7	209.9	192.7	184.8	188.5
67.5°	187.5	180.7	168.1	165.0	164.0
70°	161.9	155.6	145.2	146.2	146.7
72.5°	138.4	134.7	126.9	129.5	131.6
75°	117.0	114.9	110.2	113.8	116.4
77.5°	97.6	96.1	94.0	97.1	101.3
80°	79.4	78.3	78.8	80.9	85.1
82.5°	61.1	59.0	60.6	64.7	67.4
85°	41.3	39.7	40.7	44.9	45.4
87.5°	19.3	19.3	18.8	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)