

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: P290896

Luminaire Tested: **14GR-LD5-24-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290896
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-LD5-24-F125-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1966.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

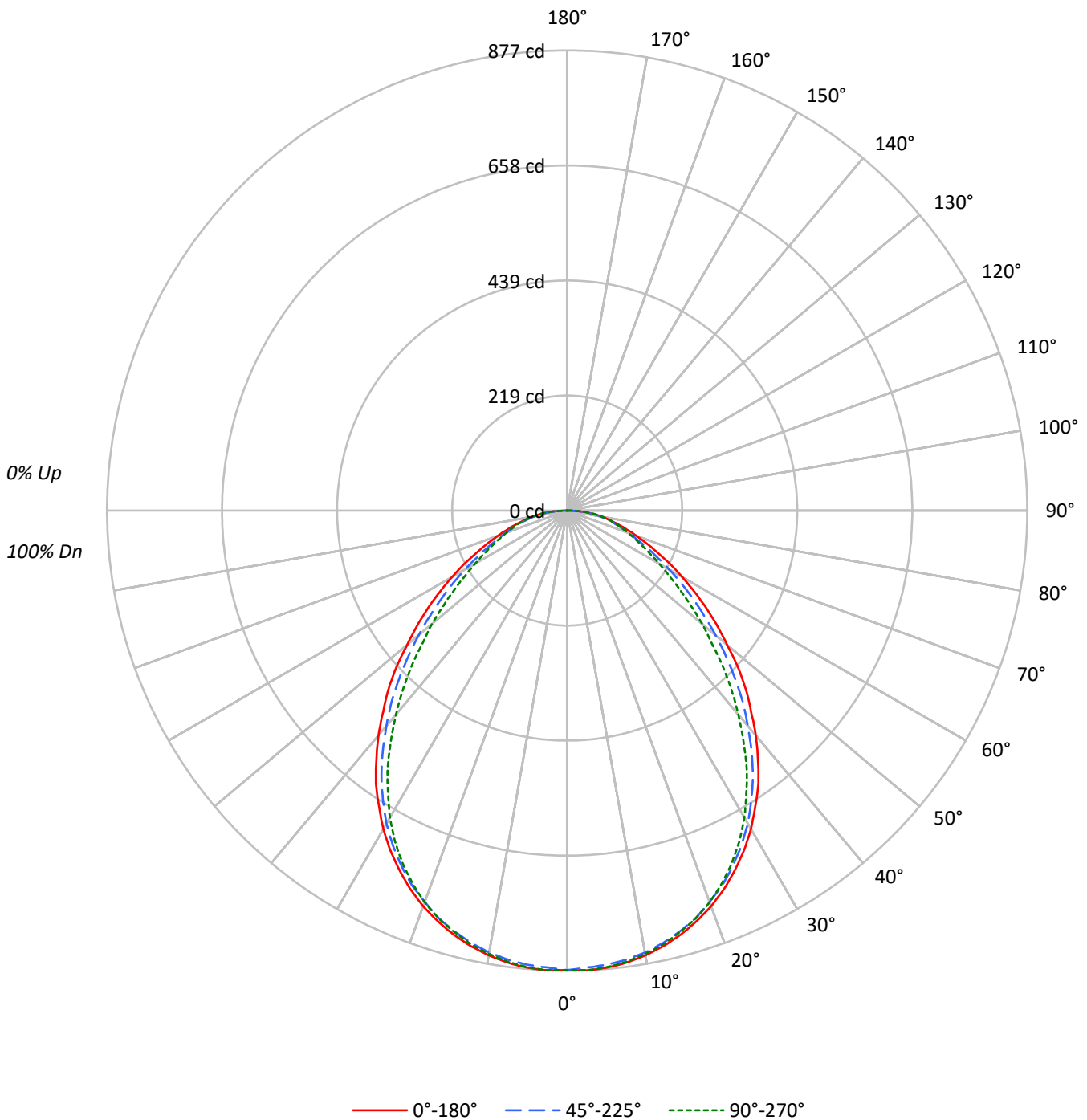
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	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	58	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	60	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	51	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	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2357	2357	2357
5°	2362	2347	2360
10°	2352	2337	2344
15°	2331	2313	2316
20°	2298	2273	2274
25°	2246	2218	2203
30°	2177	2139	2099
35°	2087	2027	1960
40°	1966	1882	1783
45°	1834	1723	1595
50°	1667	1546	1408
55°	1518	1370	1227
60°	1361	1207	1090
65°	1214	1075	1002
70°	1104	980	969
75°	1031	954	1002
80°	1037	987	1044
85°	1084	1013	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	4.2
10°-20°	234.8	11.9
20°-30°	344.2	17.5
30°-40°	384.2	19.5
40°-50°	347.9	17.7
50°-60°	262.6	13.4
60°-70°	171.7	8.7
70°-80°	100.8	5.1
80°-90°	36.9	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°	661.8	33.7
0°-40°	1046.1	53.2
0°-60°	1656.6	84.3
0°-90°	1966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	874	873	869	874	874	83
15°	837	835	830	835	832	236
25°	756	754	747	746	742	348
35°	635	630	617	603	597	396
45°	482	474	453	428	419	370
55°	324	316	292	269	262	289
65°	191	185	169	159	157	191
75°	99	96	92	94	96	107
85°	35	34	33	37	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.8	875.8	875.8	875.8	875.8
2.5°	877.2	875.8	871.7	877.2	876.8
5°	874.5	872.6	868.9	874.0	873.5
7.5°	868.9	867.1	863.4	868.0	867.1
10°	860.6	858.8	855.1	860.2	857.8
12.5°	850.0	848.2	844.0	848.6	846.8
15°	836.6	835.2	830.2	834.8	831.5
17.5°	820.5	818.2	814.5	817.2	814.9
20°	802.5	799.7	793.7	796.5	794.2
22.5°	780.8	777.1	772.9	772.9	769.7
25°	756.3	753.6	747.1	745.7	742.0
27.5°	730.0	727.7	719.4	717.1	710.6
30°	700.5	697.3	688.5	681.1	675.6
32.5°	667.7	665.4	653.4	643.7	635.9
35°	635.4	629.9	617.0	603.1	596.7
37.5°	597.6	593.4	577.3	560.2	551.4
40°	559.7	554.7	535.7	516.8	507.6
42.5°	518.7	514.1	496.1	473.5	463.8
45°	481.8	474.4	452.7	428.2	419.0
47.5°	441.2	433.3	410.2	384.4	373.8
50°	398.2	393.2	369.2	344.2	336.4
52.5°	359.9	352.1	329.5	305.0	296.7
55°	323.5	316.1	292.1	269.0	261.6
57.5°	287.0	278.7	258.0	237.2	229.8
60°	252.9	244.6	224.3	207.2	202.6
62.5°	222.0	212.7	194.7	181.4	178.1
65°	190.6	184.6	168.9	159.2	157.4
67.5°	164.3	156.9	144.4	139.8	138.9
70°	140.3	135.2	124.6	123.2	123.2
72.5°	118.6	114.4	106.6	107.5	108.9
75°	99.2	96.4	91.8	93.7	96.4
77.5°	82.6	79.8	77.1	79.8	81.7
80°	66.9	64.1	63.7	66.0	67.4
82.5°	50.3	48.0	48.5	52.1	53.5
85°	35.1	33.7	32.8	36.9	37.4
87.5°	18.0	17.1	16.6	19.8	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)