

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: P293334

Luminaire Tested: **24GR-LD5-30-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2608.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

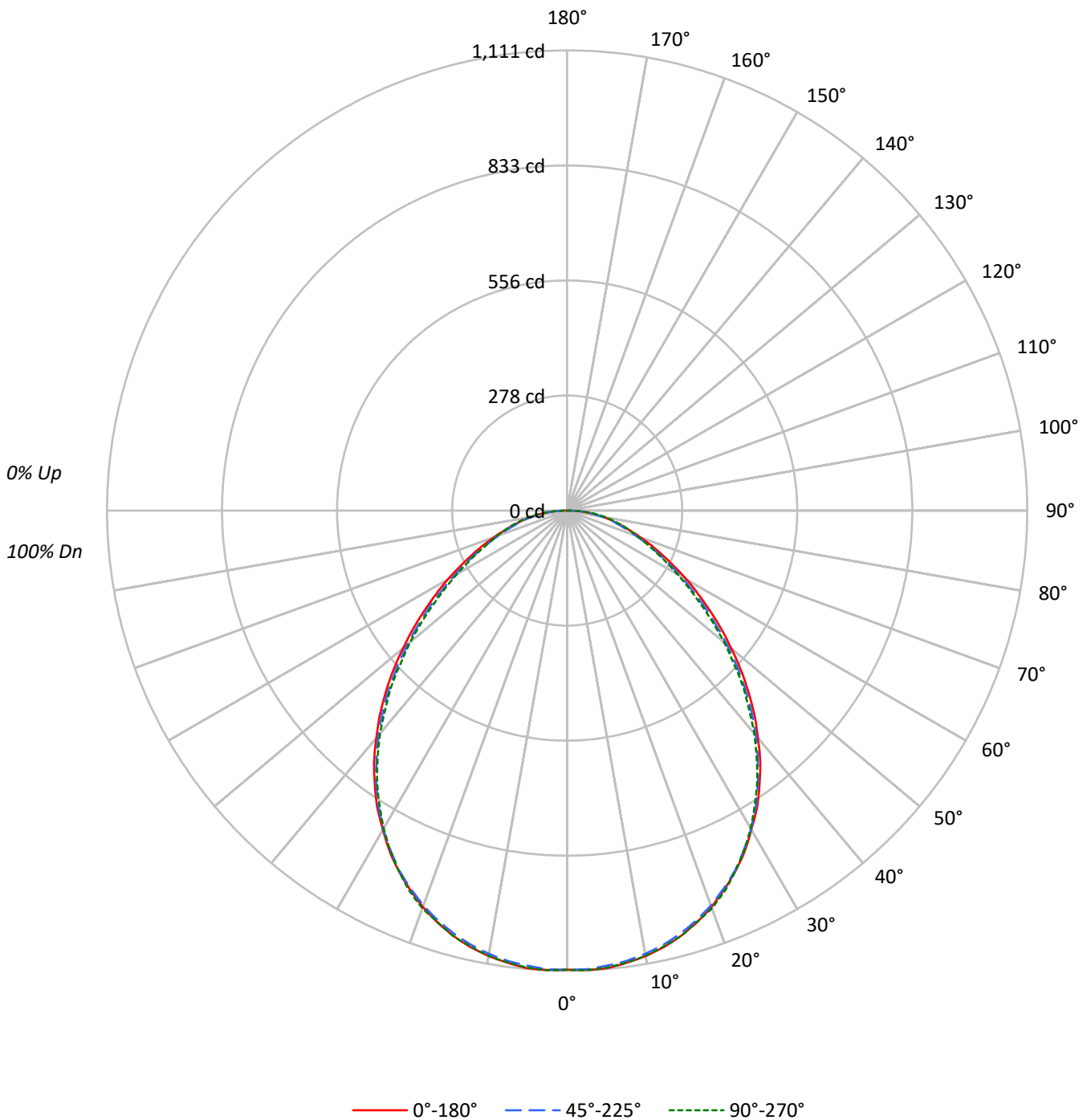
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1491	1491	1491
5°	1498	1490	1496
10°	1492	1485	1492
15°	1480	1472	1482
20°	1459	1453	1463
25°	1427	1423	1426
30°	1382	1379	1376
35°	1330	1320	1314
40°	1259	1244	1234
45°	1177	1156	1142
50°	1082	1053	1035
55°	987	951	923
60°	896	848	826
65°	807	762	749
70°	739	691	710
75°	691	659	708
80°	686	673	739
85°	698	706	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	4.0
10°-20°	298.2	11.4
20°-30°	440.6	16.9
30°-40°	500.9	19.2
40°-50°	467.8	17.9
50°-60°	363.8	13.9
60°-70°	241.4	9.3
70°-80°	139.7	5.4
80°-90°	50.8	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°	843.7	32.4
0°-40°	1344.6	51.6
0°-60°	2176.1	83.4
0°-90°	2608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1109	1104	1103	1105	1108	105
15°	1063	1057	1057	1057	1064	299
25°	961	957	959	957	961	442
35°	810	806	804	798	800	505
45°	619	614	607	600	600	477
55°	421	415	405	395	393	377
65°	254	246	239	235	235	253
75°	133	130	127	132	136	142
85°	45	44	46	52	52	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1108.4	1108.4	1108.4	1108.4	1108.4
2.5°	1110.0	1106.8	1108.4	1107.2	1110.8
5°	1109.2	1103.5	1103.1	1105.1	1107.6
7.5°	1101.5	1095.4	1096.6	1096.6	1100.7
10°	1092.1	1086.0	1086.8	1087.2	1091.7
12.5°	1079.5	1073.3	1073.7	1073.3	1077.8
15°	1062.7	1057.4	1057.0	1056.6	1063.6
17.5°	1042.4	1035.0	1037.5	1037.9	1041.5
20°	1018.7	1013.0	1014.6	1014.2	1022.0
22.5°	990.6	986.5	987.7	986.9	994.3
25°	961.2	957.2	958.8	956.8	960.8
27.5°	928.2	925.4	923.7	922.5	925.4
30°	889.5	887.9	887.9	882.6	885.8
32.5°	852.8	847.5	847.5	845.5	843.4
35°	809.6	805.5	803.5	797.8	800.2
37.5°	766.4	757.0	756.2	751.7	751.7
40°	716.6	711.3	708.5	703.6	702.8
42.5°	669.4	664.1	659.2	651.0	649.4
45°	618.8	613.9	607.4	599.7	600.1
47.5°	568.7	561.7	555.6	546.3	545.0
50°	516.9	512.0	503.0	494.9	494.5
52.5°	468.4	460.6	452.5	442.7	442.7
55°	420.7	414.6	405.2	394.6	393.4
57.5°	375.0	369.3	358.7	351.0	348.9
60°	333.0	324.9	315.1	308.6	307.0
62.5°	291.1	283.7	276.4	269.9	269.5
65°	253.6	245.8	239.3	234.8	235.2
67.5°	219.7	213.2	205.9	204.6	205.0
70°	187.9	181.0	175.7	178.6	180.6
72.5°	157.8	154.1	150.4	154.5	157.4
75°	132.9	129.6	126.8	132.5	136.2
77.5°	110.1	107.6	107.2	112.1	115.4
80°	88.5	85.6	86.8	92.5	95.4
82.5°	67.3	65.2	65.6	72.6	74.6
85°	45.2	44.4	45.7	51.8	52.2
87.5°	24.1	24.1	24.9	28.5	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)