

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: P293586

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2638.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

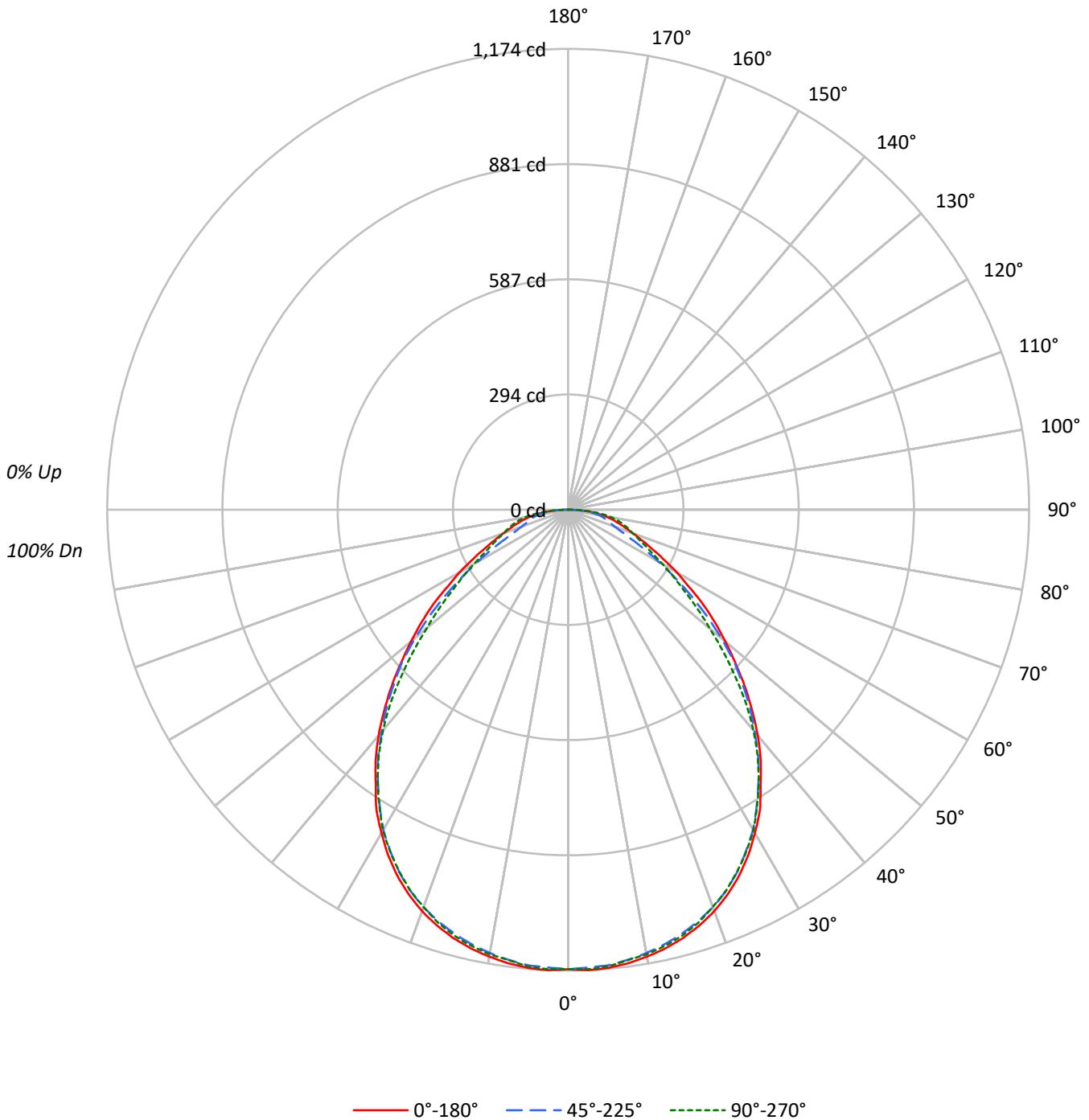
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1575	1575	1575
5°	1583	1574	1578
10°	1580	1567	1571
15°	1574	1558	1565
20°	1559	1543	1542
25°	1528	1512	1511
30°	1478	1463	1466
35°	1404	1388	1390
40°	1320	1297	1289
45°	1210	1193	1146
50°	1094	1064	984
55°	982	894	848
60°	860	719	746
65°	750	566	686
70°	686	494	686
75°	686	526	756
80°	745	619	862
85°	818	698	925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	4.2
10°-20°	316.3	12.0
20°-30°	469.0	17.8
30°-40°	529.1	20.1
40°-50°	479.2	18.2
50°-60°	345.7	13.1
60°-70°	206.4	7.8
70°-80°	127.6	4.8
80°-90°	53.8	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°	896.2	34.0
0°-40°	1425.3	54.0
0°-60°	2250.2	85.3
0°-90°	2638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2638.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1172	1170	1165	1164	1168	111
15°	1130	1123	1118	1119	1123	318
25°	1029	1024	1018	1015	1018	473
35°	855	853	845	845	846	535
45°	636	632	627	612	602	490
55°	418	406	381	362	362	374
65°	236	207	178	202	216	237
75°	132	114	101	126	146	141
85°	53	46	45	59	60	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.5	1170.5	1170.5	1170.5	1170.5
2.5°	1174.5	1171.3	1167.2	1169.6	1171.7
5°	1171.7	1170.0	1165.2	1163.9	1168.0
7.5°	1165.6	1161.5	1157.0	1159.0	1157.4
10°	1156.2	1152.5	1146.8	1147.2	1150.1
12.5°	1144.8	1140.3	1134.2	1135.8	1138.3
15°	1129.7	1122.8	1118.3	1118.7	1123.2
17.5°	1110.5	1105.2	1099.5	1100.8	1102.8
20°	1088.5	1085.7	1077.5	1075.1	1077.1
22.5°	1060.8	1055.5	1051.0	1049.8	1050.2
25°	1029.4	1023.7	1018.4	1014.8	1017.6
27.5°	992.8	987.9	980.9	979.7	982.2
30°	951.2	947.5	941.4	939.8	943.5
32.5°	908.8	902.7	894.1	894.1	895.0
35°	854.6	853.4	844.8	845.2	846.0
37.5°	805.7	800.0	795.1	790.2	792.7
40°	751.5	745.0	738.5	735.2	734.0
42.5°	693.2	688.3	685.5	673.7	670.8
45°	635.8	631.7	627.2	611.7	602.3
47.5°	577.1	576.3	572.6	545.3	535.9
50°	522.5	521.2	508.2	479.3	469.9
52.5°	470.7	462.6	445.4	416.9	415.3
55°	418.5	405.5	381.0	362.3	361.5
57.5°	363.5	348.0	323.2	313.0	318.3
60°	319.5	295.9	267.3	268.6	277.1
62.5°	273.9	247.4	219.3	231.5	241.7
65°	235.6	207.4	177.7	201.7	215.6
67.5°	202.1	176.1	147.5	179.7	193.2
70°	174.4	153.2	125.5	159.3	174.4
72.5°	152.4	132.9	111.3	143.0	160.6
75°	132.0	114.5	101.1	125.9	145.5
77.5°	114.5	97.4	91.3	111.3	130.4
80°	96.2	80.7	79.9	97.0	111.3
82.5°	75.0	64.4	64.4	81.1	89.7
85°	53.0	46.5	45.2	59.1	59.9
87.5°	27.3	26.1	23.6	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)