

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: P293526

Luminaire Tested: **24GR-LD5-72-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293526
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-LD5-72-A-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7532.0 lumens
Efficiency: N/A
Efficacy: 140.1 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

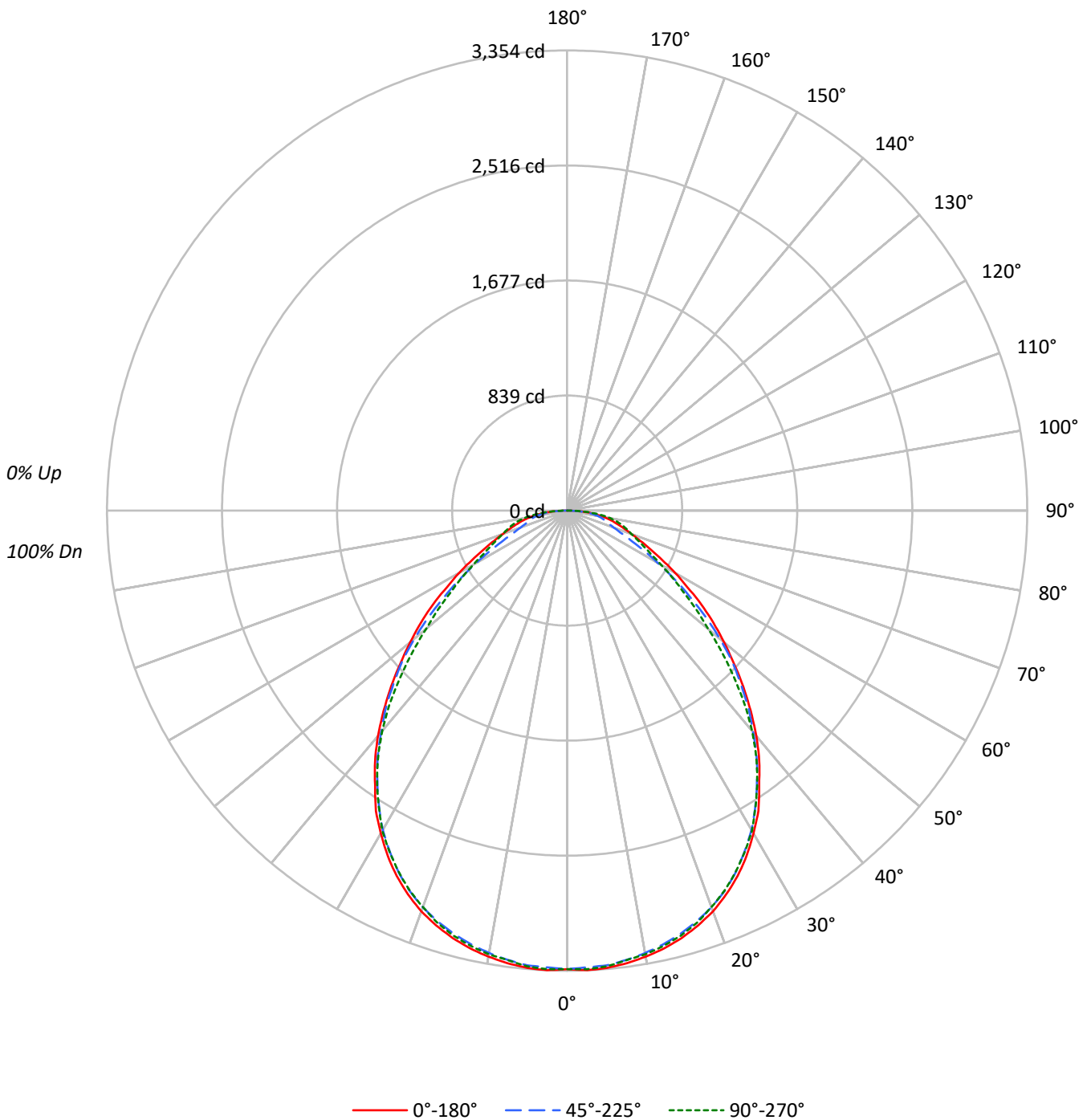
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4496	4496	4496
5°	4518	4493	4504
10°	4510	4474	4486
15°	4493	4448	4467
20°	4450	4405	4403
25°	4364	4317	4313
30°	4219	4176	4185
35°	4008	3962	3968
40°	3769	3703	3681
45°	3454	3408	3272
50°	3122	3037	2808
55°	2803	2552	2421
60°	2455	2054	2129
65°	2141	1615	1960
70°	1959	1410	1959
75°	1960	1500	2159
80°	2128	1767	2462
85°	2336	1995	2640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.5	4.2
10°-20°	903.1	12.0
20°-30°	1339.2	17.8
30°-40°	1510.7	20.1
40°-50°	1368.3	18.2
50°-60°	987.1	13.1
60°-70°	589.4	7.8
70°-80°	364.3	4.8
80°-90°	153.5	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°	2558.7	34.0
0°-40°	4069.5	54.0
0°-60°	6424.8	85.3
0°-90°	7532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3342	3342	3342	3342	3342	
5°	3345	3341	3327	3323	3335	318
15°	3226	3206	3193	3194	3207	909
25°	2939	2923	2908	2897	2906	1350
35°	2440	2437	2412	2413	2416	1527
45°	1815	1804	1791	1747	1720	1399
55°	1195	1158	1088	1034	1032	1067
65°	673	592	507	576	616	677
75°	377	327	289	360	415	403
85°	151	133	129	169	171	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3341.9	3341.9	3341.9	3341.9	3341.9
2.5°	3353.5	3344.2	3332.6	3339.5	3345.4
5°	3345.4	3340.7	3326.7	3323.2	3334.9
7.5°	3327.9	3316.3	3303.5	3309.3	3304.6
10°	3301.1	3290.7	3274.4	3275.5	3283.7
12.5°	3268.6	3255.8	3238.3	3243.0	3249.9
15°	3225.5	3205.7	3192.9	3194.1	3206.9
17.5°	3170.8	3155.7	3139.4	3142.9	3148.7
20°	3108.0	3099.8	3076.6	3069.6	3075.4
22.5°	3028.9	3013.7	3000.9	2997.4	2998.6
25°	2939.3	2923.0	2907.8	2897.4	2905.5
27.5°	2834.5	2820.6	2800.8	2797.3	2804.3
30°	2715.8	2705.4	2687.9	2683.3	2693.7
32.5°	2594.8	2577.4	2552.9	2552.9	2555.3
35°	2440.1	2436.6	2412.1	2413.3	2415.6
37.5°	2300.4	2284.1	2270.2	2256.2	2263.2
40°	2145.7	2127.1	2108.4	2099.1	2095.6
42.5°	1979.3	1965.3	1957.2	1923.4	1915.3
45°	1815.2	1803.6	1790.8	1746.6	1719.8
47.5°	1647.7	1645.3	1634.9	1556.9	1530.1
50°	1491.7	1488.2	1451.0	1368.4	1341.6
52.5°	1344.0	1320.7	1271.8	1190.4	1185.7
55°	1195.0	1157.8	1088.0	1034.4	1032.1
57.5°	1037.9	993.7	922.7	893.6	908.8
60°	912.3	844.8	763.3	766.8	791.2
62.5°	781.9	706.3	626.0	660.9	690.0
65°	672.6	592.3	507.3	576.0	615.5
67.5°	577.1	502.7	421.2	513.1	551.5
70°	498.0	437.5	358.4	455.0	498.0
72.5°	435.2	379.3	317.7	408.4	458.5
75°	377.0	327.0	288.6	359.6	415.4
77.5°	327.0	278.1	260.6	317.7	372.4
80°	274.6	230.4	228.1	276.9	317.7
82.5°	214.1	183.8	183.8	231.6	256.0
85°	151.3	132.7	129.2	168.7	171.0
87.5°	78.0	74.5	67.5	88.4	88.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)