

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: P293640

Luminaire Tested: **24GR-LD5-64-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293640
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-LD5-64-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: 5539.0 lumens
Efficiency: N/A
Efficacy: 120.3 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

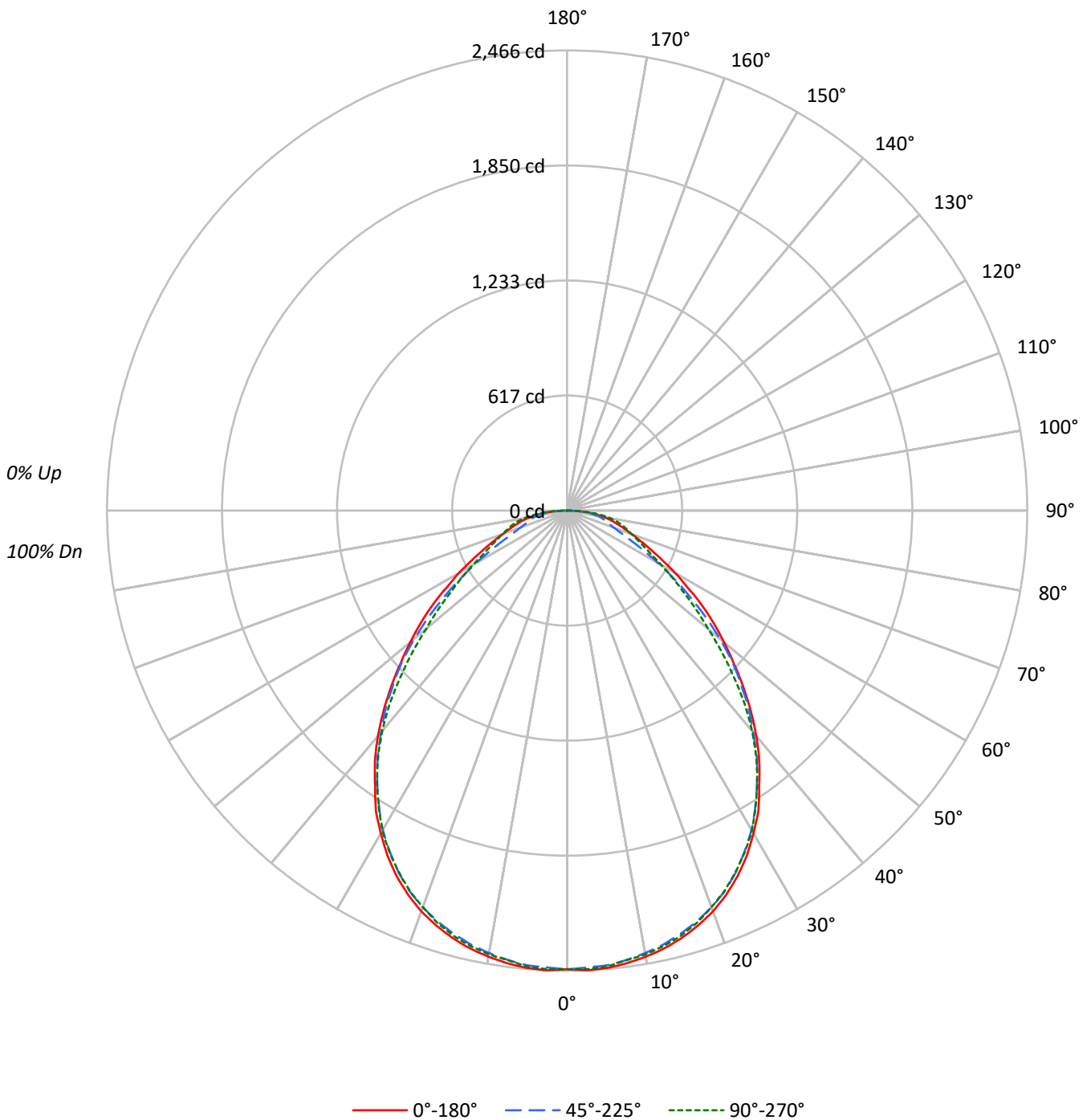
Input Watts (W): 46.035
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3307	3307	3307
5°	3323	3304	3312
10°	3317	3290	3299
15°	3304	3271	3285
20°	3273	3240	3238
25°	3209	3175	3172
30°	3103	3071	3078
35°	2947	2914	2918
40°	2771	2723	2707
45°	2540	2506	2406
50°	2296	2234	2065
55°	2061	1877	1780
60°	1805	1510	1566
65°	1575	1188	1441
70°	1441	1037	1441
75°	1441	1103	1588
80°	1564	1299	1810
85°	1717	1467	1942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	4.2
10°-20°	664.2	12.0
20°-30°	984.8	17.8
30°-40°	1111.0	20.1
40°-50°	1006.2	18.2
50°-60°	725.9	13.1
60°-70°	433.4	7.8
70°-80°	267.9	4.8
80°-90°	112.9	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°	1881.7	34.0
0°-40°	2992.7	54.0
0°-60°	4724.8	85.3
0°-90°	5539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2458	2458	2458	2458	2458	
5°	2460	2457	2446	2444	2452	234
15°	2372	2358	2348	2349	2358	669
25°	2162	2150	2138	2131	2137	993
35°	1794	1792	1774	1775	1776	1123
45°	1335	1326	1317	1284	1265	1029
55°	879	851	800	761	759	784
65°	495	436	373	424	453	498
75°	277	240	212	264	306	296
85°	111	98	95	124	126	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2457.6	2457.6	2457.6	2457.6	2457.6
2.5°	2466.1	2459.3	2450.7	2455.9	2460.2
5°	2460.2	2456.7	2446.5	2443.9	2452.5
7.5°	2447.3	2438.8	2429.4	2433.6	2430.2
10°	2427.6	2419.9	2408.0	2408.8	2414.8
12.5°	2403.7	2394.3	2381.4	2384.9	2390.0
15°	2372.0	2357.5	2348.1	2348.9	2358.3
17.5°	2331.8	2320.7	2308.7	2311.3	2315.5
20°	2285.6	2279.6	2262.5	2257.4	2261.6
22.5°	2227.4	2216.3	2206.9	2204.3	2205.2
25°	2161.5	2149.5	2138.4	2130.7	2136.7
27.5°	2084.5	2074.2	2059.7	2057.1	2062.3
30°	1997.2	1989.5	1976.7	1973.3	1981.0
32.5°	1908.2	1895.4	1877.4	1877.4	1879.1
35°	1794.4	1791.9	1773.9	1774.7	1776.4
37.5°	1691.7	1679.8	1669.5	1659.2	1664.3
40°	1577.9	1564.2	1550.5	1543.7	1541.1
42.5°	1455.6	1445.3	1439.3	1414.5	1408.5
45°	1334.9	1326.3	1316.9	1284.4	1264.7
47.5°	1211.7	1210.0	1202.3	1144.9	1125.3
50°	1097.0	1094.4	1067.1	1006.3	986.6
52.5°	988.3	971.2	935.3	875.4	872.0
55°	878.8	851.4	800.1	760.7	759.0
57.5°	763.3	730.8	678.6	657.2	668.3
60°	670.9	621.2	561.3	563.9	581.9
62.5°	575.0	519.4	460.4	486.0	507.4
65°	494.6	435.6	373.1	423.6	452.7
67.5°	424.4	369.7	309.8	377.4	405.6
70°	366.2	321.7	263.6	334.6	366.2
72.5°	320.0	279.0	233.6	300.4	337.1
75°	277.2	240.5	212.2	264.4	305.5
77.5°	240.5	204.5	191.7	233.6	273.8
80°	201.9	169.4	167.7	203.7	233.6
82.5°	157.5	135.2	135.2	170.3	188.3
85°	111.2	97.6	95.0	124.1	125.8
87.5°	57.3	54.8	49.6	65.0	65.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)