

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: P293612

Luminaire Tested: **24GR-LD5-42-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293612
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-LD5-42-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3456.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

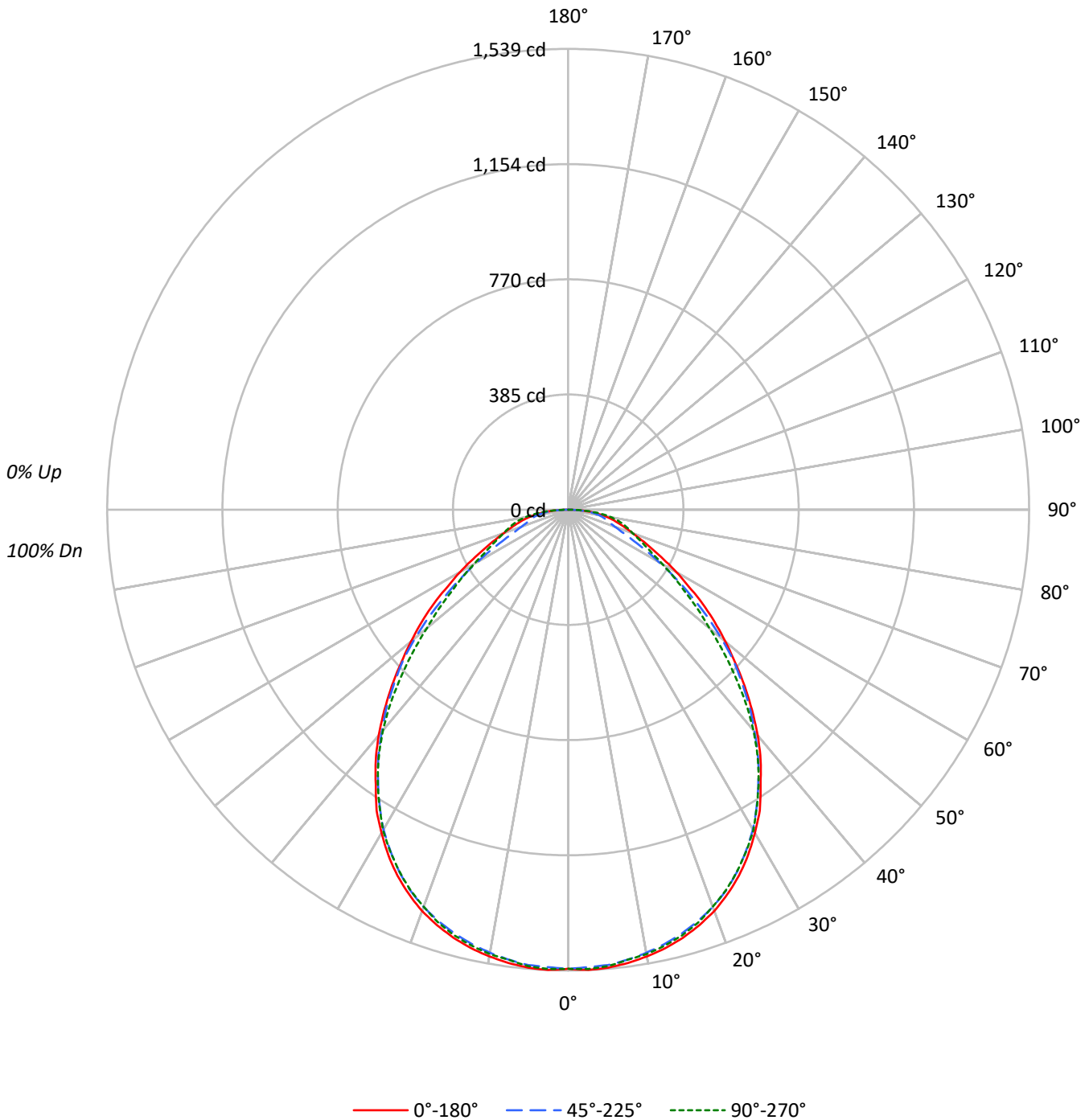
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2063	2063	2063
5°	2073	2062	2067
10°	2069	2053	2059
15°	2062	2041	2050
20°	2042	2021	2020
25°	2002	1981	1979
30°	1936	1916	1920
35°	1839	1818	1821
40°	1729	1699	1689
45°	1585	1564	1502
50°	1433	1394	1289
55°	1286	1171	1111
60°	1126	942	977
65°	982	741	899
70°	899	647	899
75°	899	688	991
80°	976	810	1130
85°	1071	915	1212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	4.2
10°-20°	414.4	12.0
20°-30°	614.5	17.8
30°-40°	693.2	20.1
40°-50°	627.8	18.2
50°-60°	452.9	13.1
60°-70°	270.4	7.8
70°-80°	167.2	4.8
80°-90°	70.4	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°	1174.1	34.0
0°-40°	1867.2	54.0
0°-60°	2948.0	85.3
0°-90°	3456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1535	1533	1526	1525	1530	146
15°	1480	1471	1465	1466	1472	417
25°	1349	1341	1334	1329	1333	620
35°	1120	1118	1107	1107	1108	700
45°	833	828	822	801	789	642
55°	548	531	499	475	474	489
65°	309	272	233	264	282	310
75°	173	150	132	165	191	185
85°	69	61	59	77	78	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.4	1533.4	1533.4	1533.4	1533.4
2.5°	1538.7	1534.5	1529.1	1532.3	1535.0
5°	1535.0	1532.9	1526.4	1524.8	1530.2
7.5°	1527.0	1521.6	1515.8	1518.4	1516.3
10°	1514.7	1509.9	1502.4	1503.0	1506.7
12.5°	1499.8	1493.9	1485.9	1488.0	1491.2
15°	1480.0	1470.9	1465.0	1465.6	1471.5
17.5°	1454.9	1448.0	1440.5	1442.1	1444.8
20°	1426.1	1422.3	1411.7	1408.5	1411.1
22.5°	1389.8	1382.8	1377.0	1375.4	1375.9
25°	1348.7	1341.2	1334.2	1329.4	1333.2
27.5°	1300.6	1294.2	1285.1	1283.5	1286.7
30°	1246.1	1241.3	1233.3	1231.2	1236.0
32.5°	1190.6	1182.6	1171.4	1171.4	1172.5
35°	1119.6	1118.0	1106.8	1107.3	1108.4
37.5°	1055.5	1048.1	1041.7	1035.2	1038.5
40°	984.5	976.0	967.4	963.2	961.6
42.5°	908.2	901.8	898.0	882.6	878.8
45°	832.9	827.6	821.7	801.4	789.1
47.5°	756.0	754.9	750.1	714.4	702.1
50°	684.5	682.9	665.8	627.9	615.6
52.5°	616.7	606.0	583.6	546.2	544.1
55°	548.3	531.2	499.2	474.6	473.6
57.5°	476.2	456.0	423.4	410.0	417.0
60°	418.6	387.6	350.2	351.8	363.1
62.5°	358.8	324.1	287.2	303.3	316.6
65°	308.6	271.8	232.8	264.3	282.4
67.5°	264.8	230.6	193.3	235.5	253.1
70°	228.5	200.7	164.4	208.8	228.5
72.5°	199.7	174.1	145.8	187.4	210.4
75°	173.0	150.0	132.4	165.0	190.6
77.5°	150.0	127.6	119.6	145.8	170.9
80°	126.0	105.7	104.6	127.1	145.8
82.5°	98.2	84.4	84.4	106.2	117.5
85°	69.4	60.9	59.3	77.4	78.5
87.5°	35.8	34.2	31.0	40.6	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)