

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: P293969

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A19/156-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3093.0 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

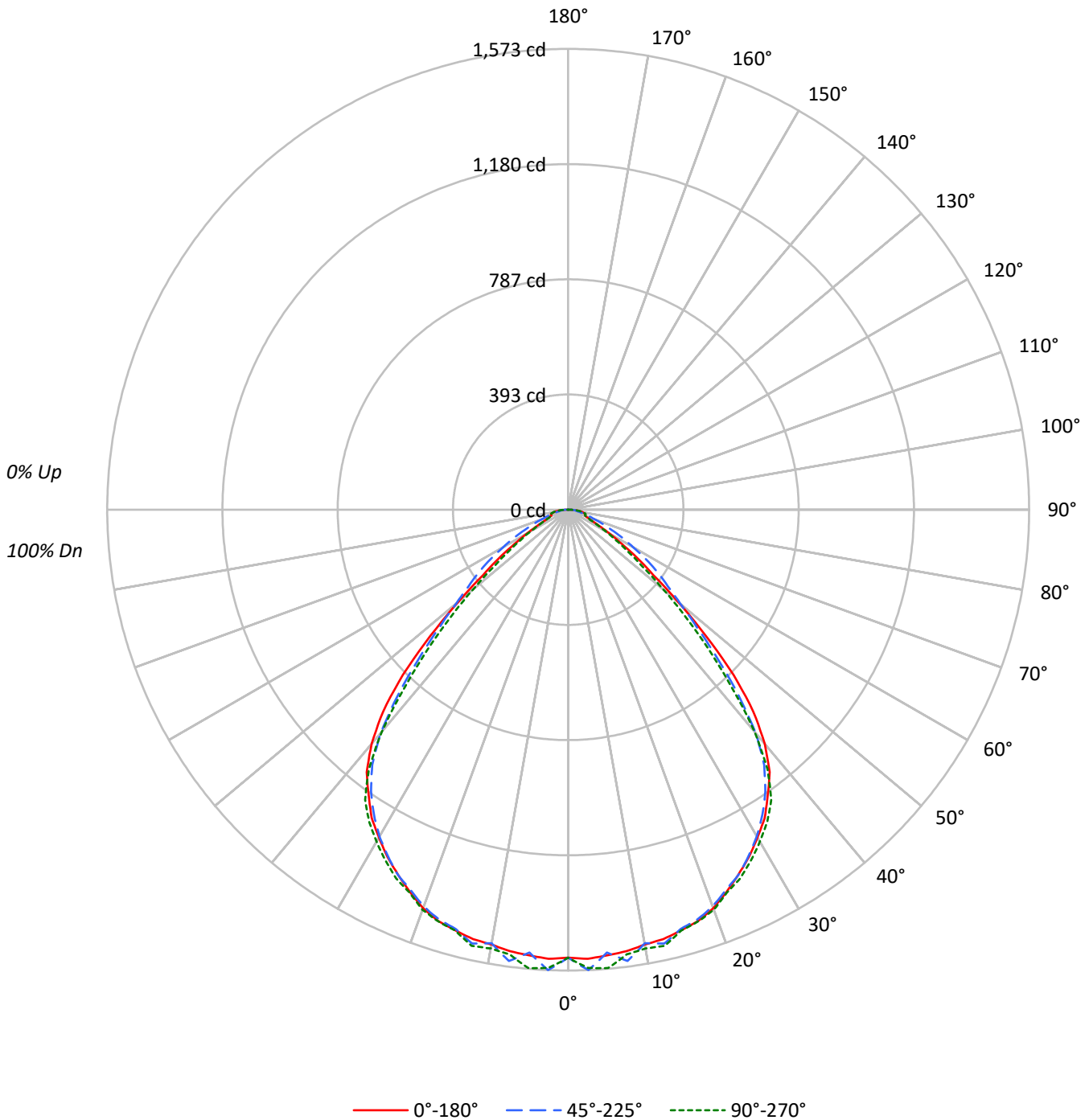
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53					53			
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48					48			
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43					43			
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39					39			
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36					36			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2058	2058	2058
5°	2062	2049	2121
10°	2059	2053	2078
15°	2071	2064	2072
20°	2072	2064	2081
25°	2040	2042	2062
30°	2007	2000	2033
35°	1950	1926	1984
40°	1831	1749	1740
45°	1518	1373	1302
50°	1021	1042	890
55°	673	874	584
60°	432	690	400
65°	278	527	270
70°	246	377	246
75°	318	299	320
80°	389	258	408
85°	452	383	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	4.7
10°-20°	420.5	13.6
20°-30°	633.0	20.5
30°-40°	733.7	23.7
40°-50°	573.1	18.5
50°-60°	306.0	9.9
60°-70°	157.4	5.1
70°-80°	89.0	2.9
80°-90°	33.8	1.1
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°	1199.9	38.8
0°-40°	1933.6	62.5
0°-60°	2812.8	90.9
0°-90°	3093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1529	1529	1529	1529	1529	
5°	1527	1570	1517	1559	1571	145
15°	1487	1496	1482	1491	1488	420
25°	1374	1370	1375	1373	1389	633
35°	1187	1182	1173	1196	1208	740
45°	798	798	722	715	684	601
55°	287	363	372	336	249	265
65°	87	182	165	182	85	96
75°	61	115	58	107	62	62
85°	29	38	25	38	31	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1529.4	1529.4	1529.4	1529.4	1529.4
2.5°	1534.4	1562.2	1573.1	1559.7	1565.7
5°	1526.9	1569.6	1517.0	1558.7	1570.6
7.5°	1520.0	1515.5	1553.7	1514.0	1530.9
10°	1507.0	1510.0	1502.6	1530.9	1521.0
12.5°	1501.1	1518.5	1517.0	1502.6	1524.4
15°	1486.7	1496.1	1481.7	1491.2	1487.7
17.5°	1472.3	1467.8	1466.3	1470.3	1473.8
20°	1447.4	1432.5	1441.5	1442.5	1453.4
22.5°	1411.7	1402.7	1404.7	1413.7	1414.7
25°	1374.4	1370.0	1375.4	1373.4	1388.8
27.5°	1335.7	1329.7	1333.2	1340.6	1350.1
30°	1291.5	1290.0	1287.5	1294.0	1308.4
32.5°	1247.8	1235.8	1233.9	1247.3	1263.7
35°	1187.2	1181.7	1172.8	1196.1	1208.0
37.5°	1129.5	1112.7	1098.2	1112.2	1117.1
40°	1042.6	1029.7	995.9	997.4	990.5
42.5°	935.8	926.4	861.8	850.4	831.0
45°	797.7	798.2	721.7	715.3	684.5
47.5°	637.3	665.6	599.0	591.6	545.9
50°	487.8	538.9	497.7	485.8	425.2
52.5°	366.1	441.1	428.2	402.3	318.9
55°	287.1	363.1	372.5	335.8	248.9
57.5°	216.1	299.0	314.4	284.1	192.2
60°	160.4	251.8	256.3	244.4	148.5
62.5°	119.2	214.1	208.1	209.6	110.3
65°	87.4	182.3	165.4	181.8	84.9
67.5°	71.5	158.0	128.7	157.5	69.0
70°	62.6	140.1	95.9	138.6	62.6
72.5°	60.6	128.7	76.0	123.2	61.1
75°	61.1	114.7	57.6	107.3	61.6
77.5°	56.1	94.4	43.7	91.4	58.6
80°	50.2	71.5	33.3	72.5	52.7
82.5°	42.7	52.2	26.8	53.6	44.2
85°	29.3	38.2	24.8	38.2	30.8
87.5°	13.9	22.8	15.4	21.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)