

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: P293970

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293970
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3101.0 lumens
Efficiency: N/A
Efficacy: 148.2 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

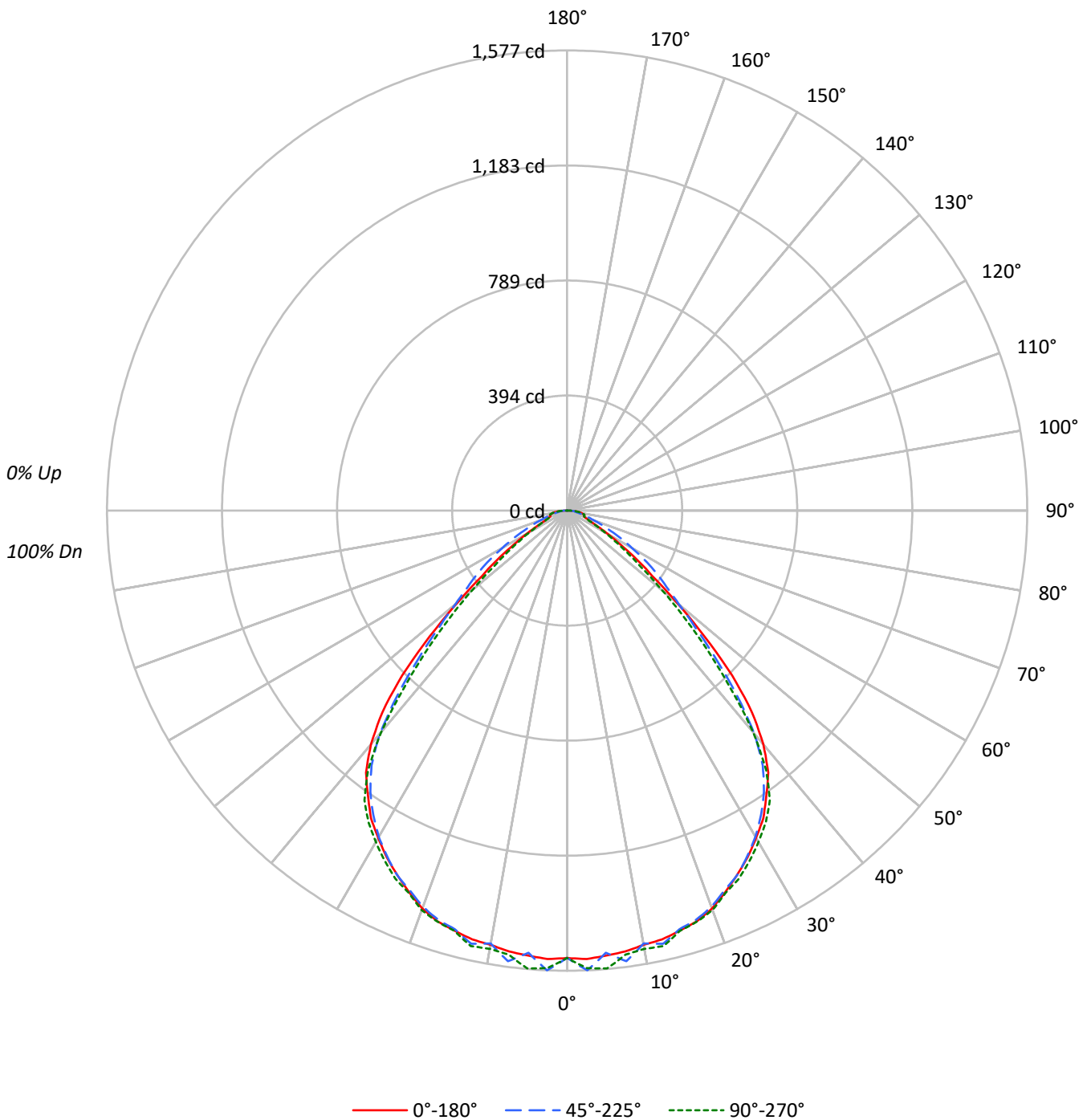
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293970

CATALOG NUMBER: 24GR-LD5-30-A19/156-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P293970

CATALOG NUMBER: 24GR-LD5-30-A19/156-UNV-L82765-W2A1-U-6500K

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°	2063	2063	2063
5°	2068	2054	2127
10°	2064	2058	2083
15°	2076	2069	2078
20°	2078	2069	2086
25°	2046	2047	2067
30°	2012	2005	2038
35°	1955	1931	1989
40°	1836	1754	1744
45°	1522	1377	1306
50°	1024	1045	892
55°	675	876	585
60°	433	692	401
65°	279	528	271
70°	247	378	247
75°	319	300	321
80°	390	259	409
85°	454	384	477



TEST NUMBER: P293970

CATALOG NUMBER: 24GR-LD5-30-A19/156-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	4.7
10°-20°	421.6	13.6
20°-30°	634.6	20.5
30°-40°	735.6	23.7
40°-50°	574.6	18.5
50°-60°	306.8	9.9
60°-70°	157.8	5.1
70°-80°	89.3	2.9
80°-90°	33.9	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°	1203.0	38.8
0°-40°	1938.6	62.5
0°-60°	2820.0	90.9
0°-90°	3101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1531	1574	1521	1563	1575	146
15°	1490	1500	1486	1495	1492	421
25°	1378	1374	1379	1377	1392	635
35°	1190	1185	1176	1199	1211	742
45°	800	800	724	717	686	603
55°	288	364	374	337	250	266
65°	88	183	166	182	85	96
75°	61	115	58	108	62	62
85°	29	38	25	38	31	30
90°	0	0	0	0	0	



TEST NUMBER: P293970

CATALOG NUMBER: 24GR-LD5-30-A19/156-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.4	1533.4	1533.4	1533.4	1533.4
2.5°	1538.3	1566.2	1577.2	1563.7	1569.7
5°	1530.9	1573.7	1520.9	1562.7	1574.7
7.5°	1523.9	1519.4	1557.8	1517.9	1534.8
10°	1510.9	1513.9	1506.5	1534.8	1524.9
12.5°	1505.0	1522.4	1520.9	1506.5	1528.4
15°	1490.5	1500.0	1485.5	1495.0	1491.5
17.5°	1476.1	1471.6	1470.1	1474.1	1477.6
20°	1451.2	1436.2	1445.2	1446.2	1457.2
22.5°	1415.3	1406.4	1408.4	1417.3	1418.3
25°	1378.0	1373.5	1379.0	1377.0	1392.4
27.5°	1339.1	1333.2	1336.6	1344.1	1353.6
30°	1294.8	1293.3	1290.8	1297.3	1311.7
32.5°	1251.0	1239.0	1237.0	1250.5	1266.9
35°	1190.2	1184.8	1175.8	1199.2	1211.1
37.5°	1132.5	1115.5	1101.1	1115.0	1120.0
40°	1045.3	1032.4	998.5	1000.0	993.0
42.5°	938.2	928.8	864.0	852.6	833.2
45°	799.8	800.3	723.6	717.1	686.3
47.5°	638.9	667.3	600.6	593.1	547.3
50°	489.0	540.3	499.0	487.0	426.3
52.5°	367.0	442.2	429.3	403.4	319.7
55°	287.8	364.0	373.5	336.7	249.5
57.5°	216.6	299.8	315.2	284.9	192.7
60°	160.9	252.5	257.0	245.0	148.9
62.5°	119.5	214.6	208.7	210.2	110.6
65°	87.6	182.8	165.8	182.3	85.2
67.5°	71.7	158.4	129.0	157.9	69.2
70°	62.7	140.4	96.1	138.9	62.7
72.5°	60.8	129.0	76.2	123.5	61.3
75°	61.3	115.0	57.8	107.6	61.8
77.5°	56.3	94.6	43.8	91.6	58.8
80°	50.3	71.7	33.4	72.7	52.8
82.5°	42.8	52.3	26.9	53.8	44.3
85°	29.4	38.3	24.9	38.3	30.9
87.5°	13.9	22.9	15.4	21.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)