

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: P293917

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293917
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-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2803.0 lumens
Efficiency: N/A
Efficacy: 140.2 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

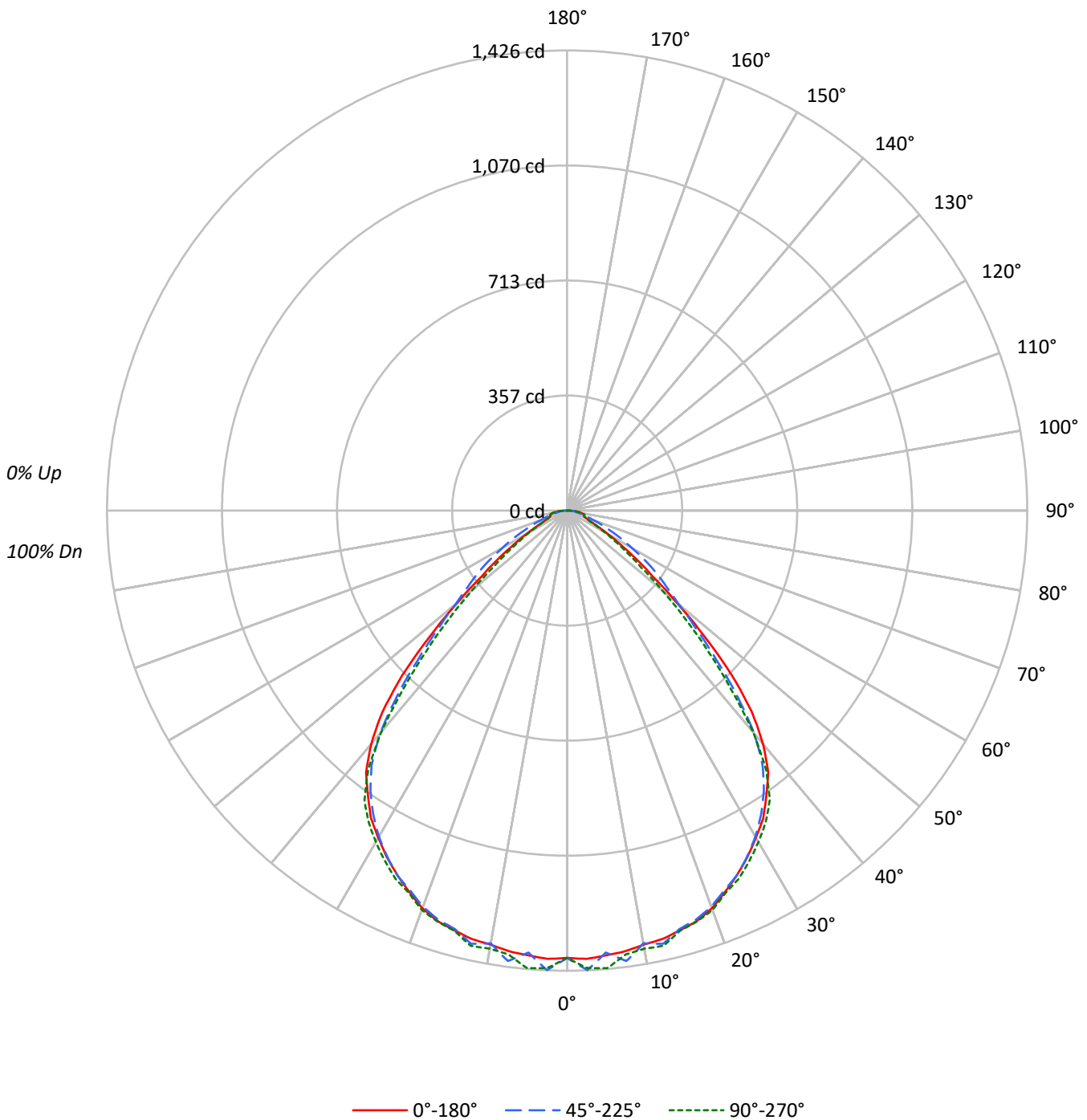
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1865	1865	1865
5°	1869	1857	1922
10°	1866	1860	1883
15°	1877	1870	1878
20°	1878	1870	1886
25°	1849	1851	1868
30°	1818	1813	1842
35°	1767	1746	1798
40°	1660	1585	1577
45°	1376	1245	1180
50°	925	944	807
55°	610	792	529
60°	391	625	362
65°	252	477	245
70°	223	342	223
75°	288	271	290
80°	353	234	370
85°	411	347	431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	4.7
10°-20°	381.0	13.6
20°-30°	573.7	20.5
30°-40°	664.9	23.7
40°-50°	519.4	18.5
50°-60°	277.3	9.9
60°-70°	142.6	5.1
70°-80°	80.7	2.9
80°-90°	30.7	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°	1087.4	38.8
0°-40°	1752.3	62.5
0°-60°	2549.1	90.9
0°-90°	2803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1384	1422	1375	1413	1423	132
15°	1347	1356	1343	1351	1348	381
25°	1246	1242	1246	1245	1259	574
35°	1076	1071	1063	1084	1095	671
45°	723	723	654	648	620	545
55°	260	329	338	304	226	240
65°	79	165	150	165	77	87
75°	55	104	52	97	56	56
85°	27	35	22	35	28	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.0	1386.0	1386.0	1386.0	1386.0
2.5°	1390.5	1415.7	1425.6	1413.5	1418.9
5°	1383.8	1422.5	1374.7	1412.6	1423.4
7.5°	1377.5	1373.4	1408.1	1372.0	1387.4
10°	1365.7	1368.4	1361.7	1387.4	1378.4
12.5°	1360.3	1376.1	1374.7	1361.7	1381.5
15°	1347.3	1355.8	1342.8	1351.3	1348.2
17.5°	1334.2	1330.2	1328.8	1332.4	1335.6
20°	1311.7	1298.2	1306.3	1307.2	1317.1
22.5°	1279.3	1271.2	1273.0	1281.1	1282.0
25°	1245.6	1241.5	1246.5	1244.7	1258.6
27.5°	1210.4	1205.0	1208.2	1214.9	1223.5
30°	1170.4	1169.0	1166.8	1172.6	1185.7
32.5°	1130.8	1120.0	1118.2	1130.3	1145.2
35°	1075.9	1070.9	1062.8	1084.0	1094.8
37.5°	1023.6	1008.3	995.3	1007.9	1012.4
40°	944.9	933.2	902.5	903.9	897.6
42.5°	848.1	839.5	781.0	770.7	753.1
45°	722.9	723.4	654.1	648.2	620.3
47.5°	577.5	603.2	542.9	536.1	494.7
50°	442.0	488.4	451.0	440.2	385.3
52.5°	331.8	399.7	388.0	364.6	289.0
55°	260.2	329.1	337.6	304.3	225.5
57.5°	195.8	271.0	284.9	257.5	174.2
60°	145.4	228.2	232.3	221.5	134.6
62.5°	108.0	194.0	188.6	190.0	99.9
65°	79.2	165.2	149.9	164.8	77.0
67.5°	64.8	143.1	116.6	142.7	62.6
70°	56.7	126.9	86.9	125.6	56.7
72.5°	54.9	116.6	68.9	111.6	55.4
75°	55.4	104.0	52.2	97.2	55.8
77.5°	50.9	85.5	39.6	82.8	53.1
80°	45.5	64.8	30.2	65.7	47.7
82.5°	38.7	47.3	24.3	48.6	40.1
85°	26.6	34.7	22.5	34.7	27.9
87.5°	12.6	20.7	14.0	19.8	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)