

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: P294088

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294088
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-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2325.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

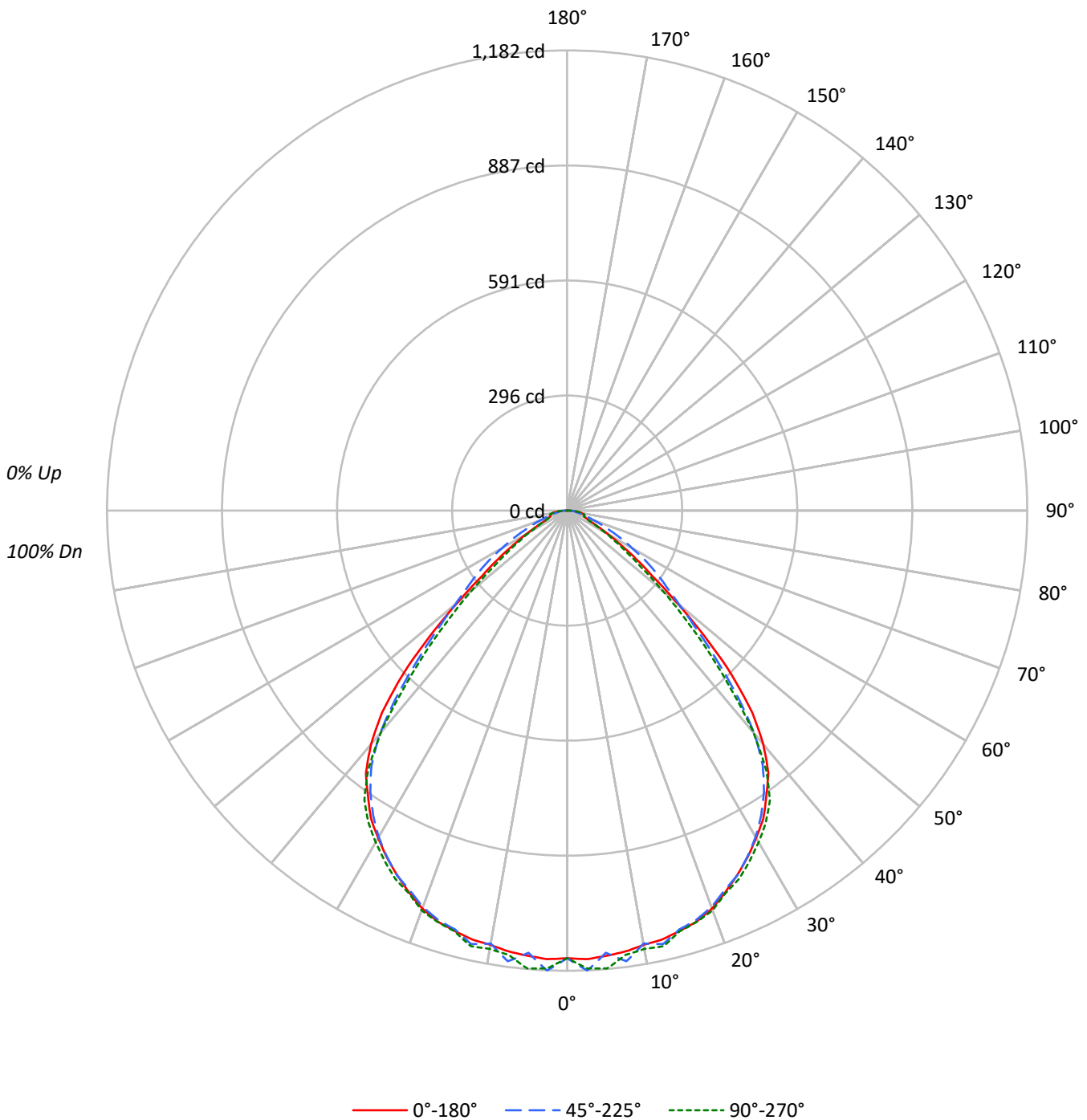
Input Watts (W): 19.902
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1547	1547	1547
5°	1550	1540	1595
10°	1548	1543	1562
15°	1557	1551	1558
20°	1558	1552	1564
25°	1534	1535	1550
30°	1508	1504	1528
35°	1466	1448	1492
40°	1376	1315	1308
45°	1141	1032	979
50°	768	783	669
55°	506	657	439
60°	325	519	300
65°	209	396	203
70°	185	284	185
75°	239	225	241
80°	292	194	307
85°	340	289	357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	4.7
10°-20°	316.1	13.6
20°-30°	475.8	20.5
30°-40°	551.5	23.7
40°-50°	430.8	18.5
50°-60°	230.0	9.9
60°-70°	118.3	5.1
70°-80°	66.9	2.9
80°-90°	25.4	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°	902.0	38.8
0°-40°	1453.5	62.5
0°-60°	2114.4	90.9
0°-90°	2325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1148	1180	1140	1172	1181	109
15°	1118	1125	1114	1121	1118	316
25°	1033	1030	1034	1032	1044	476
35°	892	888	882	899	908	556
45°	600	600	542	538	514	452
55°	216	273	280	252	187	199
65°	66	137	124	137	64	72
75°	46	86	43	81	46	47
85°	22	29	19	29	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.6	1149.6	1149.6	1149.6	1149.6
2.5°	1153.4	1174.3	1182.5	1172.4	1176.9
5°	1147.8	1179.9	1140.3	1171.7	1180.6
7.5°	1142.6	1139.2	1167.9	1138.1	1150.8
10°	1132.8	1135.1	1129.5	1150.8	1143.3
12.5°	1128.4	1141.4	1140.3	1129.5	1145.9
15°	1117.5	1124.6	1113.8	1120.9	1118.3
17.5°	1106.7	1103.3	1102.2	1105.2	1107.8
20°	1088.0	1076.8	1083.6	1084.3	1092.5
22.5°	1061.2	1054.4	1055.9	1062.6	1063.4
25°	1033.2	1029.8	1033.9	1032.4	1044.0
27.5°	1004.0	999.5	1002.2	1007.8	1014.9
30°	970.8	969.7	967.8	972.7	983.5
32.5°	937.9	929.0	927.5	937.6	949.9
35°	892.4	888.3	881.6	899.1	908.1
37.5°	849.1	836.4	825.5	836.0	839.7
40°	783.7	774.0	748.6	749.8	744.5
42.5°	703.5	696.4	647.8	639.2	624.7
45°	599.7	600.0	542.5	537.7	514.5
47.5°	479.1	500.3	450.3	444.7	410.3
50°	366.7	405.1	374.1	365.2	319.6
52.5°	275.2	331.6	321.9	302.4	239.7
55°	215.8	272.9	280.0	252.4	187.1
57.5°	162.4	224.8	236.4	213.6	144.5
60°	120.6	189.3	192.7	183.7	111.6
62.5°	89.6	160.9	156.4	157.6	82.9
65°	65.7	137.0	124.3	136.7	63.8
67.5°	53.8	118.7	96.7	118.4	51.9
70°	47.0	105.3	72.1	104.2	47.0
72.5°	45.6	96.7	57.1	92.6	45.9
75°	45.9	86.3	43.3	80.7	46.3
77.5°	42.2	70.9	32.9	68.7	44.1
80°	37.7	53.8	25.0	54.5	39.6
82.5°	32.1	39.2	20.2	40.3	33.2
85°	22.0	28.8	18.7	28.8	23.1
87.5°	10.5	17.2	11.6	16.4	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)