

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: P291484

Luminaire Tested: **14GR-LD5-24-A19/156-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A19/156-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1912.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

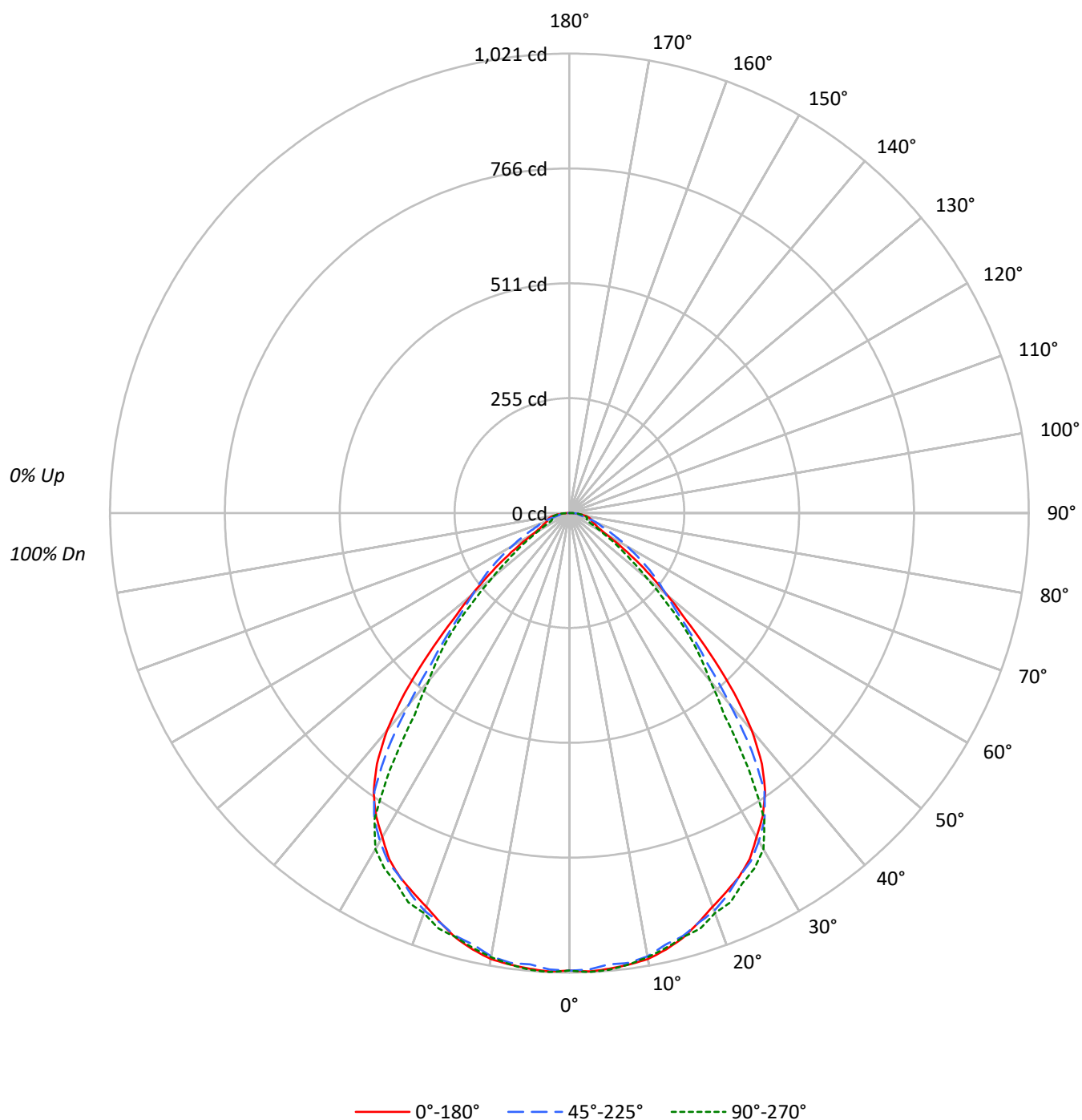
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	100	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	86	100	94	89	85		91	87	83			88	84	81			85
3	95	87	80	74	93	85	79	74		82	77	73			80	75	71			77
4	89	79	71	65	87	77	70	65		75	69	64			73	68	63			71
5	83	71	64	58	81	70	63	58		68	62	57			67	61	57			65
6	77	65	58	52	75	64	57	52		63	56	51			61	55	51			60
7	72	60	52	47	70	59	52	47		58	51	46			56	51	46			55
8	67	55	48	43	66	55	47	42		53	47	42			52	46	42			51
9	63	51	44	39	62	51	44	39		50	43	39			49	43	38			48
10	60	48	40	36	58	47	40	36		46	40	35			45	39	35			44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2736	2736	2736
5°	2745	2719	2751
10°	2749	2733	2737
15°	2722	2712	2718
20°	2665	2694	2708
25°	2648	2647	2698
30°	2584	2615	2679
35°	2492	2482	2281
40°	2212	1953	1710
45°	1679	1461	1383
50°	1191	1169	938
55°	815	998	645
60°	504	796	431
65°	415	613	312
70°	413	533	320
75°	496	383	427
80°	570	353	536
85°	540	621	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	5.0
10°-20°	275.3	14.4
20°-30°	414.1	21.7
30°-40°	451.4	23.6
40°-50°	316.1	16.5
50°-60°	178.9	9.4
60°-70°	97.9	5.1
70°-80°	59.3	3.1
80°-90°	22.5	1.2
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°	785.9	41.1
0°-40°	1237.3	64.7
0°-60°	1732.3	90.6
0°-90°	1912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1016	1014	1007	1018	1018	97
15°	977	974	973	987	976	275
25°	892	894	892	912	909	410
35°	758	755	755	717	694	467
45°	441	460	384	379	363	343
55°	174	208	213	211	137	159
65°	65	107	96	122	49	67
75°	48	69	37	72	41	49
85°	18	28	20	24	20	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1019.4	1018.0	1015.0	1021.1	1020.7
5°	1016.3	1014.5	1006.7	1018.5	1018.5
7.5°	1011.9	1007.5	1008.0	1014.5	1011.5
10°	1006.2	998.8	1000.1	1001.8	1001.8
12.5°	993.1	986.1	982.6	988.3	990.0
15°	976.9	974.3	973.4	987.4	975.6
17.5°	954.1	959.8	954.6	966.0	967.7
20°	930.5	941.4	940.6	948.4	945.8
22.5°	911.2	918.2	918.2	927.9	935.8
25°	892.0	893.7	891.6	912.1	908.6
27.5°	867.0	865.7	872.7	883.2	890.2
30°	831.6	832.0	841.7	855.7	862.2
32.5°	799.2	795.3	807.1	813.2	806.2
35°	758.5	755.0	755.4	716.9	694.2
37.5°	702.9	706.0	665.7	595.2	565.5
40°	629.8	635.9	555.9	503.3	486.7
42.5°	541.4	543.2	455.6	438.6	427.6
45°	441.2	460.4	383.8	379.0	363.3
47.5°	349.7	385.6	321.7	324.8	287.1
50°	284.5	320.4	279.2	280.6	224.1
52.5°	225.0	260.0	246.4	242.5	175.9
55°	173.8	207.9	212.7	211.0	137.4
57.5°	127.8	164.6	178.6	185.1	105.9
60°	93.7	134.4	147.9	161.1	80.1
62.5°	74.4	116.4	121.2	140.5	62.2
65°	65.2	107.2	96.3	121.7	49.0
67.5°	58.2	102.0	78.3	107.7	42.9
70°	52.5	91.9	67.8	96.3	40.7
72.5°	52.5	80.5	53.4	85.3	41.1
75°	47.7	68.7	36.8	72.2	41.1
77.5°	42.5	58.6	27.6	58.6	38.5
80°	36.8	46.0	22.8	45.1	34.6
82.5°	27.1	34.6	19.7	33.7	28.0
85°	17.5	28.4	20.1	24.5	19.7
87.5°	8.3	14.4	12.7	12.3	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)