

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: P291483

Luminaire Tested: **14GR-LD5-24-A19/156-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291483
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1838.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

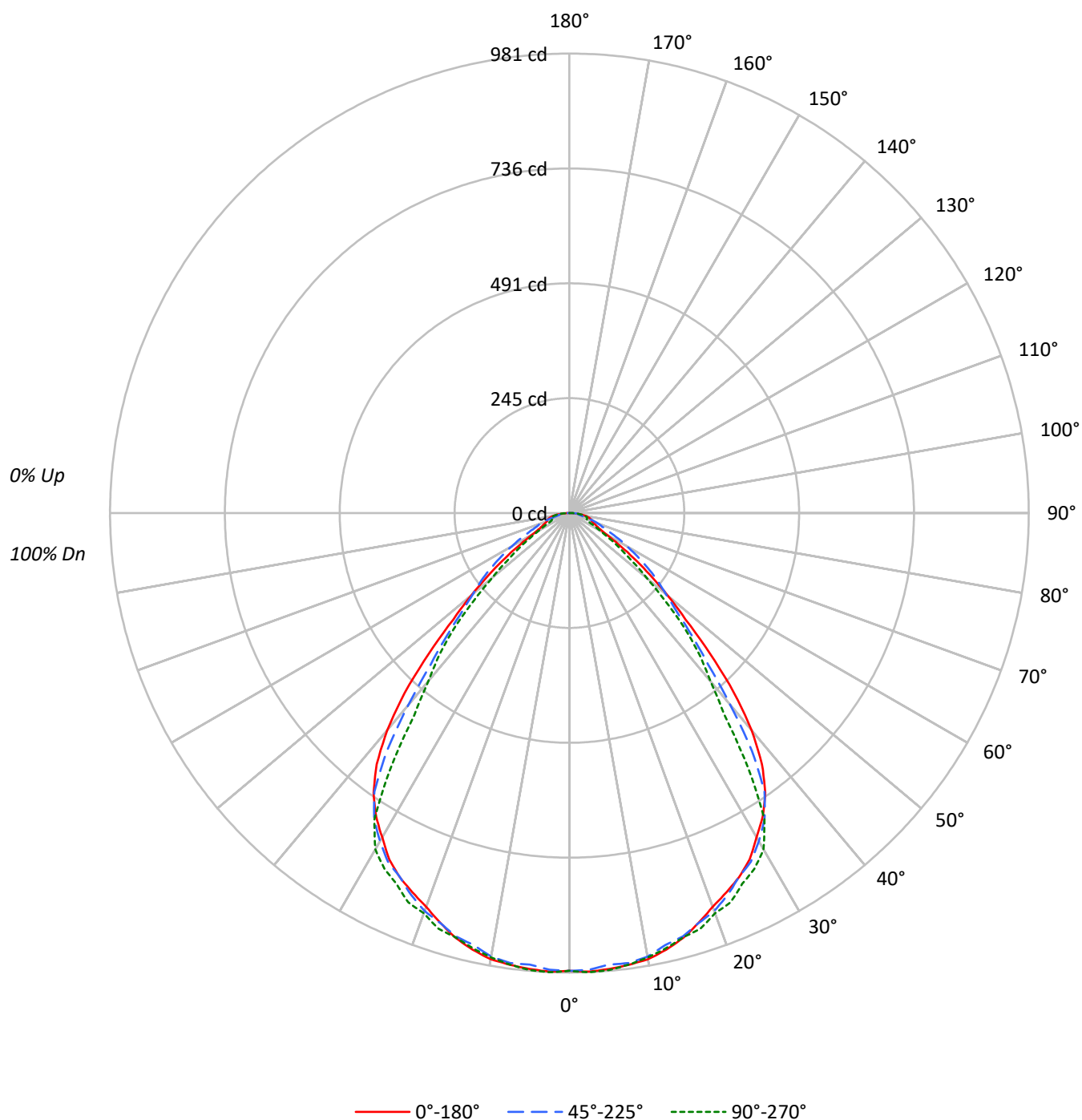
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2630	2630	2630
5°	2639	2614	2645
10°	2643	2627	2632
15°	2616	2607	2613
20°	2562	2589	2604
25°	2546	2545	2594
30°	2484	2514	2576
35°	2395	2386	2192
40°	2127	1877	1644
45°	1614	1404	1329
50°	1145	1124	902
55°	783	959	620
60°	484	765	414
65°	399	590	300
70°	397	513	308
75°	477	367	411
80°	547	339	514
85°	519	599	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	5.0
10°-20°	264.7	14.4
20°-30°	398.0	21.7
30°-40°	433.9	23.6
40°-50°	303.8	16.5
50°-60°	172.0	9.4
60°-70°	94.1	5.1
70°-80°	57.0	3.1
80°-90°	21.6	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°	755.5	41.1
0°-40°	1189.4	64.7
0°-60°	1665.2	90.6
0°-90°	1838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	977	975	968	979	979	93
15°	939	937	936	949	938	264
25°	858	859	857	877	874	394
35°	729	726	726	689	667	449
45°	424	443	369	364	349	329
55°	167	200	204	203	132	153
65°	63	103	93	117	47	64
75°	46	66	35	69	40	48
85°	17	27	19	24	19	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.4	977.4	977.4	977.4	977.4
2.5°	979.9	978.6	975.7	981.6	981.2
5°	977.0	975.3	967.7	979.1	979.1
7.5°	972.7	968.5	969.0	975.3	972.3
10°	967.3	960.1	961.4	963.1	963.1
12.5°	954.7	947.9	944.6	950.0	951.7
15°	939.1	936.6	935.7	949.2	937.8
17.5°	917.2	922.7	917.6	928.6	930.3
20°	894.5	905.0	904.2	911.7	909.2
22.5°	876.0	882.7	882.7	892.0	899.5
25°	857.5	859.1	857.0	876.8	873.5
27.5°	833.5	832.2	839.0	849.1	855.8
30°	799.4	799.8	809.1	822.5	828.9
32.5°	768.3	764.5	775.8	781.7	775.0
35°	729.1	725.8	726.2	689.2	667.3
37.5°	675.7	678.7	639.9	572.2	543.6
40°	605.4	611.3	534.3	483.8	467.9
42.5°	520.5	522.1	438.0	421.6	411.1
45°	424.1	442.6	369.0	364.4	349.2
47.5°	336.2	370.7	309.2	312.2	276.0
50°	273.5	308.0	268.4	269.7	215.4
52.5°	216.3	249.9	236.9	233.1	169.1
55°	167.0	199.9	204.5	202.8	132.1
57.5°	122.9	158.2	171.7	178.0	101.8
60°	90.0	129.2	142.2	154.8	77.0
62.5°	71.5	111.9	116.5	135.1	59.7
65°	62.7	103.1	92.6	117.0	47.1
67.5°	56.0	98.0	75.3	103.5	41.2
70°	50.5	88.4	65.2	92.6	39.1
72.5°	50.5	77.4	51.3	82.0	39.5
75°	45.9	66.1	35.3	69.4	39.5
77.5°	40.8	56.4	26.5	56.4	37.0
80°	35.3	44.2	21.9	43.3	33.2
82.5°	26.1	33.2	18.9	32.4	26.9
85°	16.8	27.3	19.4	23.6	18.9
87.5°	8.0	13.9	12.2	11.8	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)