

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: P291403

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291403
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-LD5-32-A19/156-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2917.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

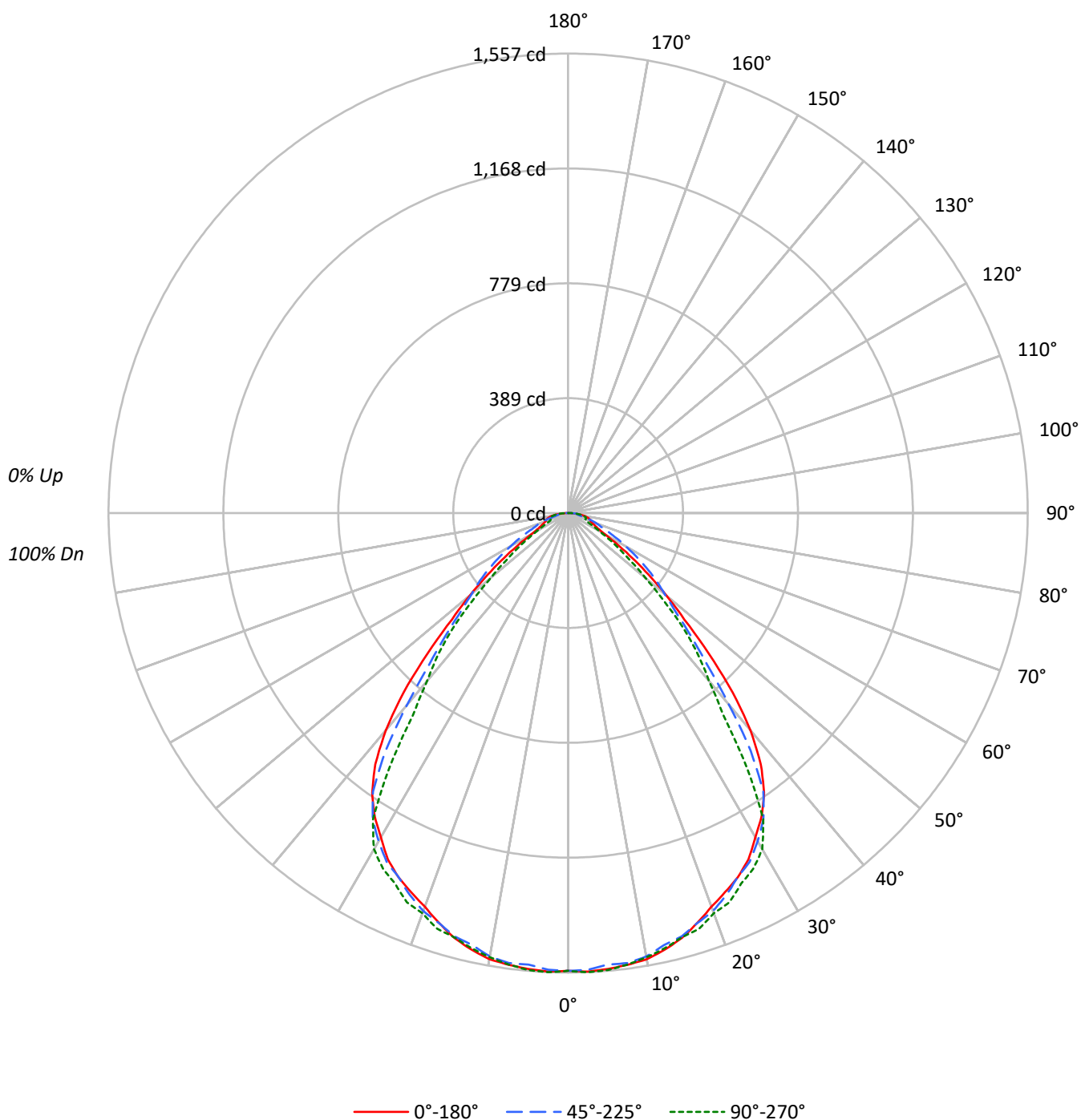
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77		
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68		
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61		
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4174	4174	4174
5°	4188	4149	4197
10°	4195	4169	4176
15°	4152	4137	4147
20°	4065	4109	4132
25°	4040	4039	4116
30°	3942	3990	4087
35°	3801	3786	3479
40°	3375	2979	2608
45°	2562	2229	2109
50°	1817	1783	1431
55°	1244	1522	984
60°	769	1215	658
65°	634	935	476
70°	630	814	489
75°	757	583	653
80°	869	538	818
85°	824	948	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	5.0
10°-20°	420.1	14.4
20°-30°	631.7	21.7
30°-40°	688.7	23.6
40°-50°	482.2	16.5
50°-60°	273.0	9.4
60°-70°	149.4	5.1
70°-80°	90.5	3.1
80°-90°	34.3	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°	1199.0	41.1
0°-40°	1887.6	64.7
0°-60°	2642.8	90.6
0°-90°	2917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1550	1548	1536	1554	1554	148
15°	1490	1486	1485	1506	1488	419
25°	1361	1364	1360	1392	1386	625
35°	1157	1152	1152	1094	1059	713
45°	673	702	586	578	554	523
55°	265	317	324	322	210	242
65°	100	164	147	186	75	102
75°	73	105	56	110	63	75
85°	27	43	31	37	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.1	1551.1	1551.1	1551.1	1551.1
2.5°	1555.2	1553.2	1548.5	1557.8	1557.2
5°	1550.5	1547.8	1535.8	1553.8	1553.8
7.5°	1543.8	1537.1	1537.8	1547.8	1543.1
10°	1535.1	1523.8	1525.8	1528.4	1528.4
12.5°	1515.1	1504.4	1499.1	1507.7	1510.4
15°	1490.4	1486.4	1485.0	1506.4	1488.4
17.5°	1455.7	1464.3	1456.3	1473.7	1476.4
20°	1419.6	1436.3	1435.0	1447.0	1443.0
22.5°	1390.2	1400.9	1400.9	1415.6	1427.6
25°	1360.8	1363.5	1360.2	1391.6	1386.2
27.5°	1322.8	1320.8	1331.5	1347.5	1358.2
30°	1268.7	1269.4	1284.1	1305.4	1315.4
32.5°	1219.3	1213.3	1231.3	1240.7	1230.0
35°	1157.2	1151.8	1152.5	1093.7	1059.0
37.5°	1072.4	1077.1	1015.6	908.1	862.7
40°	960.9	970.2	848.0	767.9	742.5
42.5°	826.0	828.7	695.1	669.1	652.4
45°	673.1	702.5	585.6	578.3	554.2
47.5°	533.5	588.3	490.8	495.5	438.0
50°	434.0	488.8	426.0	428.0	341.9
52.5°	343.2	396.6	375.9	369.9	268.4
55°	265.1	317.2	324.5	321.8	209.7
57.5°	195.0	251.1	272.4	282.5	161.6
60°	142.9	205.0	225.7	245.7	122.2
62.5°	113.5	177.6	185.0	214.3	94.8
65°	99.5	163.6	146.9	185.6	74.8
67.5°	88.8	155.6	119.5	164.3	65.4
70°	80.1	140.2	103.5	146.9	62.1
72.5°	80.1	122.9	81.5	130.2	62.8
75°	72.8	104.8	56.1	110.2	62.8
77.5°	64.8	89.5	42.1	89.5	58.8
80°	56.1	70.1	34.7	68.8	52.8
82.5°	41.4	52.8	30.0	51.4	42.7
85°	26.7	43.4	30.7	37.4	30.0
87.5°	12.7	22.0	19.4	18.7	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)