

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: P291503

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291503
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-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2720.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

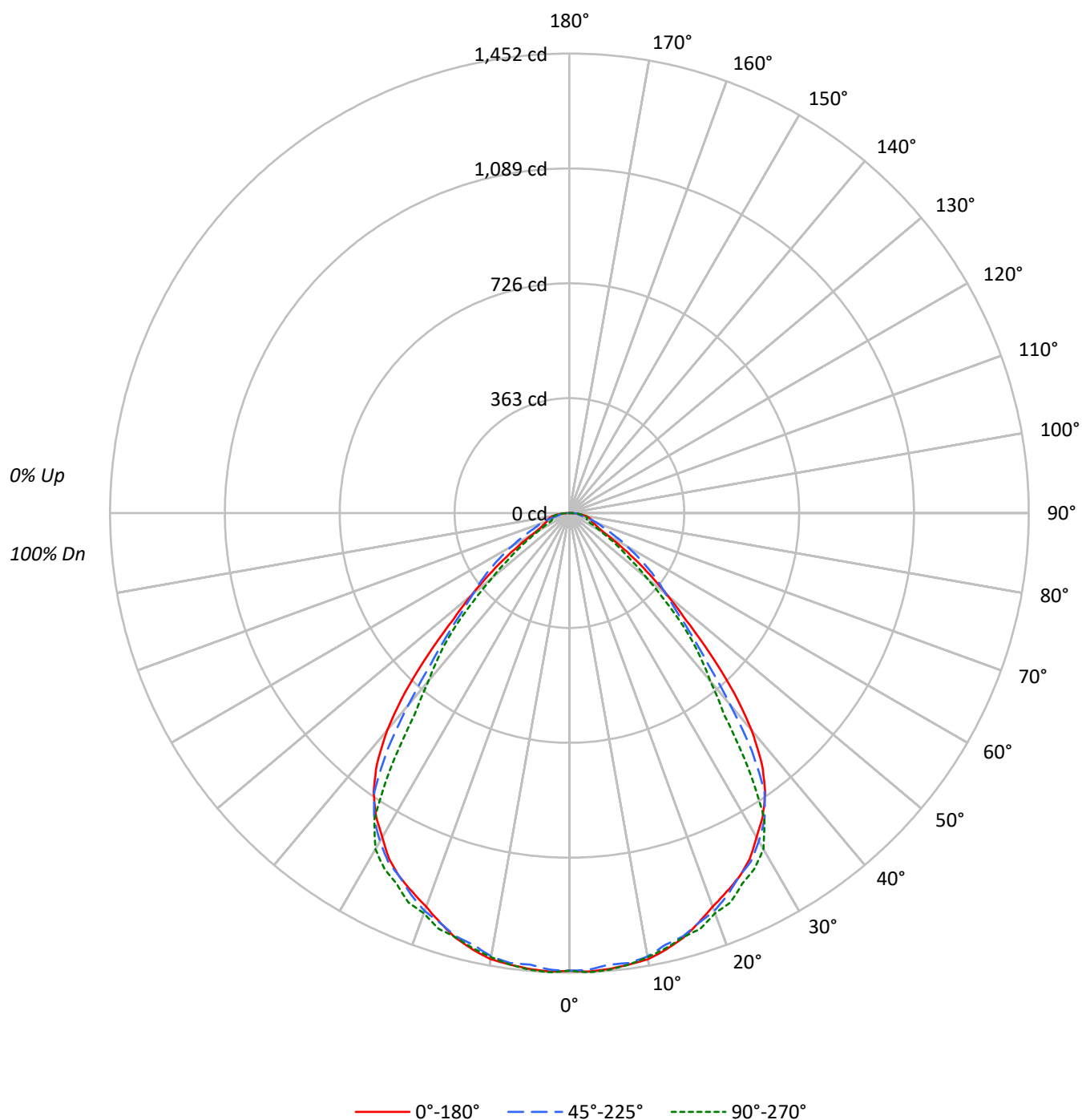
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3892	3892	3892
5°	3905	3868	3914
10°	3911	3888	3894
15°	3872	3858	3867
20°	3791	3832	3853
25°	3768	3766	3838
30°	3676	3720	3811
35°	3545	3530	3244
40°	3147	2778	2432
45°	2388	2078	1967
50°	1694	1663	1335
55°	1160	1420	917
60°	717	1133	613
65°	591	872	444
70°	588	759	456
75°	706	544	608
80°	810	502	762
85°	769	883	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	5.0
10°-20°	391.7	14.4
20°-30°	589.1	21.7
30°-40°	642.2	23.6
40°-50°	449.6	16.5
50°-60°	254.5	9.4
60°-70°	139.3	5.1
70°-80°	84.4	3.1
80°-90°	32.0	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°	1118.0	41.1
0°-40°	1760.1	64.7
0°-60°	2464.3	90.6
0°-90°	2720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1446	1443	1432	1449	1449	138
15°	1390	1386	1385	1405	1388	391
25°	1269	1271	1268	1298	1293	583
35°	1079	1074	1075	1020	988	665
45°	628	655	546	539	517	487
55°	247	296	303	300	196	226
65°	93	152	137	173	70	95
75°	68	98	52	103	58	70
85°	25	40	29	35	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1450.1	1448.3	1443.9	1452.6	1452.0
5°	1445.8	1443.3	1432.1	1448.9	1448.9
7.5°	1439.5	1433.3	1433.9	1443.3	1438.9
10°	1431.4	1420.9	1422.7	1425.2	1425.2
12.5°	1412.8	1402.8	1397.8	1405.9	1408.4
15°	1389.7	1386.0	1384.7	1404.7	1387.9
17.5°	1357.4	1365.4	1358.0	1374.2	1376.7
20°	1323.7	1339.3	1338.1	1349.3	1345.5
22.5°	1296.3	1306.3	1306.3	1320.0	1331.2
25°	1268.9	1271.4	1268.3	1297.6	1292.6
27.5°	1233.4	1231.6	1241.5	1256.5	1266.4
30°	1183.0	1183.6	1197.3	1217.3	1226.6
32.5°	1136.9	1131.3	1148.1	1156.9	1146.9
35°	1079.0	1074.1	1074.7	1019.9	987.5
37.5°	1000.0	1004.3	947.0	846.8	804.4
40°	896.0	904.7	790.8	716.0	692.4
42.5°	770.2	772.7	648.2	623.9	608.3
45°	627.6	655.0	546.1	539.2	516.8
47.5°	497.5	548.5	457.6	462.0	408.5
50°	404.7	455.8	397.2	399.1	318.8
52.5°	320.0	369.8	350.5	344.9	250.3
55°	247.2	295.8	302.6	300.1	195.5
57.5°	181.8	234.1	254.0	263.4	150.7
60°	133.2	191.2	210.5	229.1	113.9
62.5°	105.8	165.6	172.5	199.9	88.4
65°	92.8	152.5	137.0	173.1	69.7
67.5°	82.8	145.1	111.5	153.2	61.0
70°	74.7	130.8	96.5	137.0	57.9
72.5°	74.7	114.6	76.0	121.4	58.5
75°	67.9	97.8	52.3	102.7	58.5
77.5°	60.4	83.4	39.2	83.4	54.8
80°	52.3	65.4	32.4	64.1	49.2
82.5°	38.6	49.2	28.0	47.9	39.8
85°	24.9	40.5	28.6	34.9	28.0
87.5°	11.8	20.5	18.1	17.4	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)