

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: P291117

Luminaire Tested: **14GR-LD5-32-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A-UNV-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3137.0 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

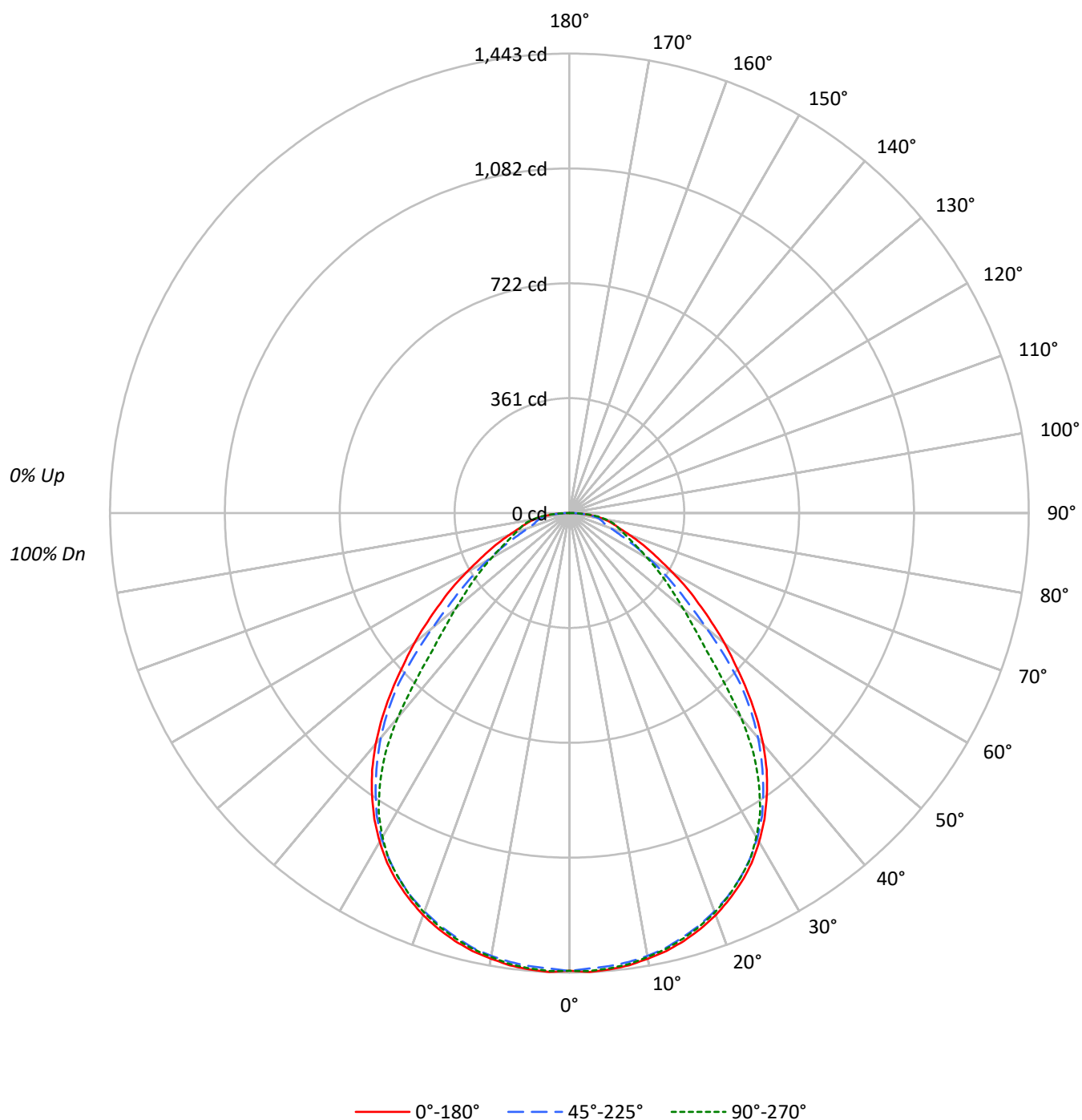
Input Watts (W): 26.877
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3868	3868	3868
5°	3887	3857	3877
10°	3882	3858	3868
15°	3875	3840	3853
20°	3847	3812	3822
25°	3797	3760	3762
30°	3704	3665	3649
35°	3552	3487	3408
40°	3325	3240	2948
45°	3003	2889	2304
50°	2663	2346	1949
55°	2324	1924	1719
60°	2016	1584	1518
65°	1768	1271	1401
70°	1577	1078	1410
75°	1538	1136	1575
80°	1705	1433	1807
85°	1778	1528	2115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	4.3
10°-20°	390.7	12.5
20°-30°	584.5	18.6
30°-40°	659.8	21.0
40°-50°	559.7	17.8
50°-60°	378.7	12.1
60°-70°	226.1	7.2
70°-80°	141.6	4.5
80°-90°	59.5	1.9
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°	1111.6	35.4
0°-40°	1771.4	56.5
0°-60°	2709.8	86.4
0°-90°	3137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1439	1435	1428	1438	1435	137
15°	1391	1388	1378	1388	1383	392
25°	1279	1274	1266	1272	1267	588
35°	1081	1074	1062	1052	1038	674
45°	789	792	759	651	606	608
55°	495	472	410	367	366	446
65°	278	230	200	213	220	277
75°	148	132	109	144	152	159
85°	58	55	50	64	68	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.5	1437.5	1437.5	1437.5	1437.5
2.5°	1442.6	1438.2	1431.7	1440.4	1439.7
5°	1439.0	1434.6	1428.0	1438.2	1435.3
7.5°	1432.4	1428.8	1422.2	1431.7	1428.8
10°	1420.8	1417.8	1412.0	1420.0	1415.7
12.5°	1408.4	1406.2	1398.9	1406.2	1401.8
15°	1390.9	1388.0	1378.5	1388.0	1382.9
17.5°	1369.0	1365.4	1357.4	1365.4	1361.0
20°	1343.5	1339.2	1331.1	1339.2	1334.8
22.5°	1312.9	1309.3	1302.0	1309.3	1303.5
25°	1278.7	1274.3	1266.3	1272.1	1267.0
27.5°	1239.3	1233.5	1226.2	1230.6	1227.7
30°	1192.0	1184.7	1179.6	1179.6	1174.5
32.5°	1140.2	1135.1	1126.4	1121.3	1114.7
35°	1081.2	1073.9	1061.6	1052.1	1037.5
37.5°	1017.8	1009.1	993.8	969.8	950.1
40°	946.4	935.5	922.4	875.0	839.3
42.5°	869.9	867.8	845.2	764.3	714.7
45°	789.1	792.0	759.2	650.6	605.5
47.5°	707.5	717.7	657.9	551.5	528.2
50°	636.1	639.7	560.3	478.7	465.6
52.5°	562.5	556.6	478.0	421.1	411.7
55°	495.4	472.1	410.2	367.2	366.5
57.5°	436.4	393.4	350.5	318.4	322.0
60°	374.5	326.4	294.4	276.9	282.0
62.5°	319.9	274.0	245.5	240.4	249.2
65°	277.6	230.2	199.6	212.7	220.0
67.5°	237.5	197.4	162.5	193.8	196.7
70°	200.4	171.2	137.0	178.5	179.2
72.5°	169.8	151.5	118.8	161.7	163.9
75°	147.9	131.9	109.3	144.3	151.5
77.5°	129.7	112.9	101.3	124.6	137.0
80°	110.0	91.1	92.5	104.2	116.6
82.5°	84.5	70.7	73.6	86.0	94.7
85°	57.6	54.6	49.5	64.1	68.5
87.5°	30.6	29.1	25.5	36.4	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)