

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: P291005

Luminaire Tested: **14GR-LD5-28-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291005
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-LD5-28-A-UNV-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2907.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

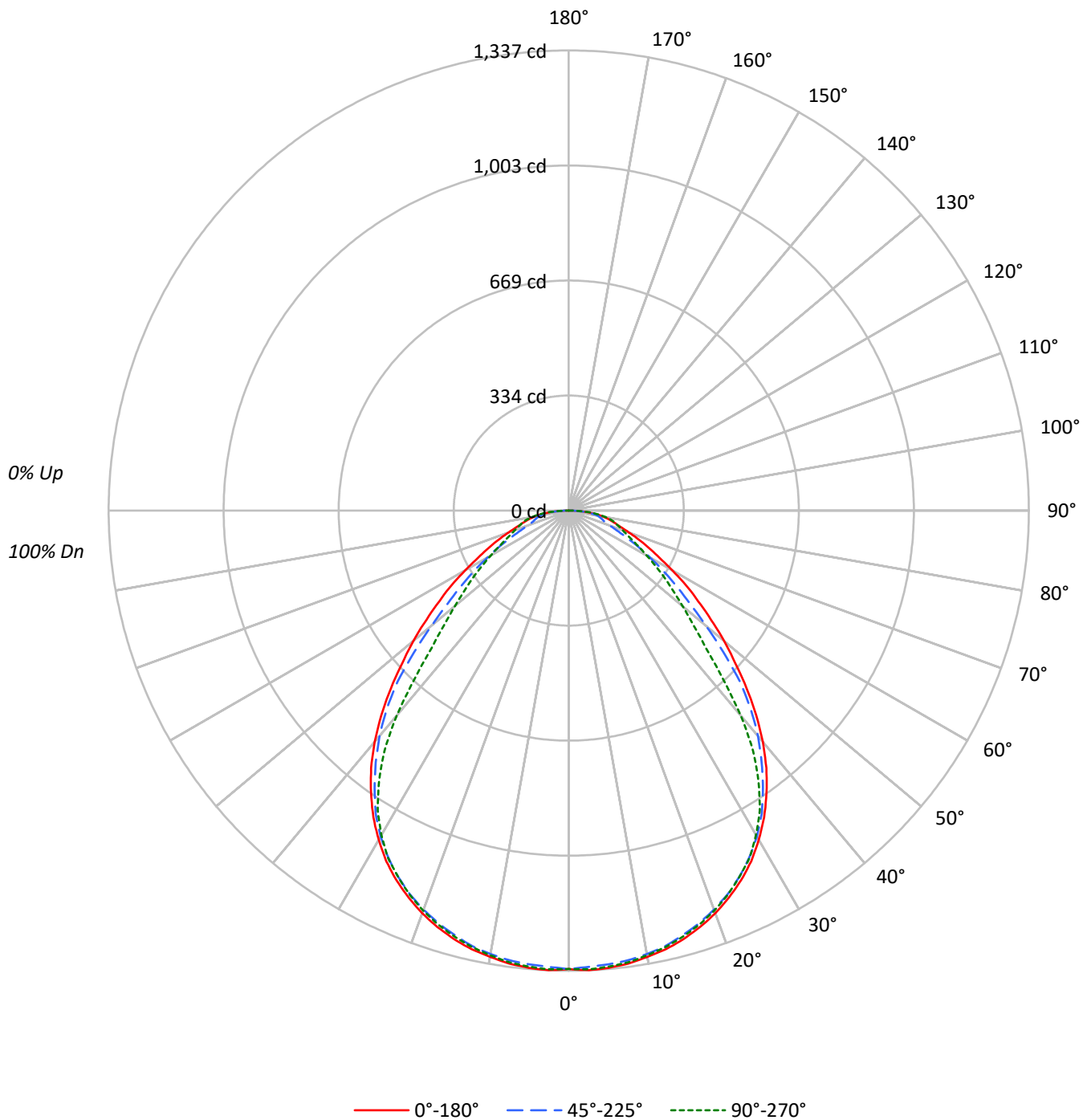
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3585	3585	3585
5°	3602	3575	3593
10°	3598	3575	3585
15°	3591	3559	3570
20°	3565	3532	3542
25°	3518	3484	3486
30°	3432	3397	3382
35°	3292	3232	3158
40°	3081	3003	2732
45°	2783	2677	2135
50°	2467	2174	1806
55°	2154	1783	1593
60°	1868	1468	1406
65°	1638	1178	1298
70°	1461	998	1307
75°	1425	1053	1460
80°	1581	1328	1674
85°	1646	1417	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	4.3
10°-20°	362.1	12.5
20°-30°	541.6	18.6
30°-40°	611.4	21.0
40°-50°	518.7	17.8
50°-60°	351.0	12.1
60°-70°	209.5	7.2
70°-80°	131.2	4.5
80°-90°	55.2	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°	1030.1	35.4
0°-40°	1641.5	56.5
0°-60°	2511.1	86.4
0°-90°	2907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1334	1329	1323	1333	1330	127
15°	1289	1286	1277	1286	1282	363
25°	1185	1181	1174	1179	1174	545
35°	1002	995	984	975	961	624
45°	731	734	704	603	561	563
55°	459	438	380	340	340	414
65°	257	213	185	197	204	257
75°	137	122	101	134	140	147
85°	53	51	46	59	64	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.1	1332.1	1332.1	1332.1	1332.1
2.5°	1336.8	1332.8	1326.7	1334.8	1334.1
5°	1333.5	1329.4	1323.3	1332.8	1330.1
7.5°	1327.4	1324.0	1317.9	1326.7	1324.0
10°	1316.6	1313.9	1308.5	1315.9	1311.9
12.5°	1305.1	1303.1	1296.3	1303.1	1299.0
15°	1288.9	1286.2	1277.4	1286.2	1281.5
17.5°	1268.6	1265.3	1257.8	1265.3	1261.2
20°	1245.0	1241.0	1233.5	1241.0	1236.9
22.5°	1216.7	1213.3	1206.5	1213.3	1207.9
25°	1184.9	1180.9	1173.5	1178.9	1174.1
27.5°	1148.5	1143.1	1136.3	1140.4	1137.7
30°	1104.6	1097.8	1093.1	1093.1	1088.4
32.5°	1056.6	1051.9	1043.8	1039.1	1033.0
35°	1002.0	995.2	983.7	974.9	961.4
37.5°	943.2	935.1	920.9	898.7	880.4
40°	877.0	866.9	854.8	810.9	777.8
42.5°	806.2	804.1	783.2	708.3	662.3
45°	731.2	733.9	703.5	602.9	561.1
47.5°	655.6	665.0	609.7	511.1	489.5
50°	589.4	592.8	519.2	443.6	431.4
52.5°	521.2	515.8	442.9	390.2	381.5
55°	459.1	437.5	380.1	340.3	339.6
57.5°	404.4	364.6	324.8	295.1	298.4
60°	347.0	302.5	272.8	256.6	261.3
62.5°	296.4	253.9	227.5	222.8	230.9
65°	257.2	213.4	185.0	197.2	203.9
67.5°	220.1	183.0	150.6	179.6	182.3
70°	185.7	158.7	126.9	165.4	166.1
72.5°	157.3	140.4	110.1	149.9	151.9
75°	137.1	122.2	101.3	133.7	140.4
77.5°	120.2	104.7	93.8	115.5	126.9
80°	102.0	84.4	85.7	96.5	108.0
82.5°	78.3	65.5	68.2	79.7	87.8
85°	53.3	50.6	45.9	59.4	63.5
87.5°	28.4	27.0	23.6	33.8	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)