

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: P291286

Luminaire Tested: **14GR-LD5-20-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1979.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

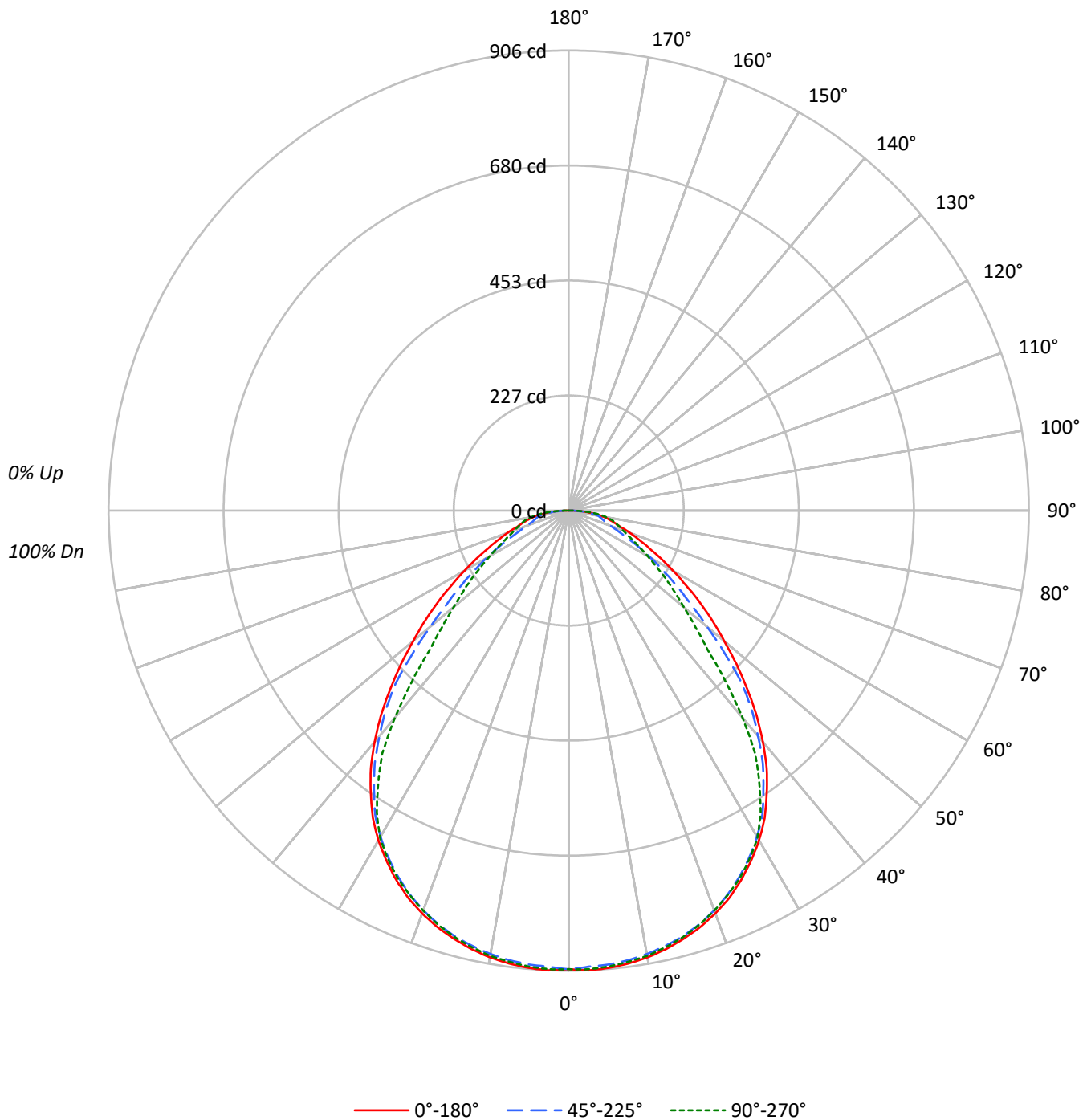
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2430	2430	2430
5°	2442	2423	2434
10°	2441	2423	2432
15°	2433	2417	2421
20°	2417	2398	2401
25°	2384	2362	2369
30°	2330	2304	2310
35°	2234	2196	2149
40°	2089	2037	1869
45°	1891	1836	1466
50°	1672	1486	1236
55°	1480	1221	1090
60°	1278	1011	966
65°	1111	804	889
70°	1004	690	888
75°	964	721	993
80°	1074	917	1159
85°	1133	979	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	4.3
10°-20°	245.5	12.4
20°-30°	367.4	18.6
30°-40°	415.9	21.0
40°-50°	354.2	17.9
50°-60°	239.9	12.1
60°-70°	143.2	7.2
70°-80°	89.5	4.5
80°-90°	37.8	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°	698.5	35.3
0°-40°	1114.4	56.3
0°-60°	1708.5	86.3
0°-90°	1979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	904	902	897	903	901	86
15°	873	870	868	873	869	246
25°	803	801	796	799	798	369
35°	680	676	668	662	654	424
45°	497	498	482	411	385	383
55°	315	298	260	232	232	282
65°	174	146	126	135	140	176
75°	93	83	69	91	96	100
85°	37	34	32	40	45	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.1	903.1	903.1	903.1	903.1
2.5°	906.3	904.0	898.9	904.9	904.0
5°	904.0	901.7	897.1	902.6	901.2
7.5°	899.4	897.1	893.0	898.5	896.2
10°	893.4	890.7	886.6	892.5	890.2
12.5°	884.3	881.5	877.8	883.8	880.6
15°	873.2	870.0	867.7	873.2	869.1
17.5°	859.9	857.2	854.0	859.5	854.9
20°	843.9	841.6	837.4	840.6	838.3
22.5°	825.5	822.3	818.1	821.8	818.6
25°	803.0	800.7	795.6	799.3	797.9
27.5°	777.3	775.9	769.9	774.5	772.2
30°	749.7	746.1	741.5	742.8	743.3
32.5°	718.1	713.5	709.8	706.6	703.4
35°	679.9	675.8	668.5	661.6	654.2
37.5°	640.5	635.0	627.6	612.5	603.3
40°	594.6	591.8	579.9	558.7	532.1
42.5°	547.7	545.0	534.4	487.1	458.2
45°	496.8	498.1	482.5	411.4	385.2
47.5°	448.1	451.8	417.8	351.2	337.4
50°	399.4	403.6	354.9	303.5	295.2
52.5°	356.7	353.5	302.6	266.3	262.6
55°	315.4	298.0	260.3	232.3	232.3
57.5°	273.2	248.4	221.3	203.4	203.4
60°	237.4	206.6	187.8	175.8	179.5
62.5°	204.3	171.7	155.6	153.3	157.9
65°	174.5	145.5	126.3	135.0	139.6
67.5°	150.1	124.4	103.8	122.1	124.9
70°	127.6	108.4	87.7	112.5	112.9
72.5°	107.0	95.5	75.3	101.9	103.8
75°	92.7	83.1	69.3	90.9	95.5
77.5°	81.3	71.2	63.8	78.5	87.2
80°	69.3	58.3	59.2	66.1	74.8
82.5°	53.3	45.0	46.8	54.2	61.1
85°	36.7	34.0	31.7	39.9	45.0
87.5°	19.7	18.4	16.1	22.5	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)