

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: P290988

Luminaire Tested: **14GR-LD5-20-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290988
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-LD5-20-A-UNV-L82765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2116.0 lumens
Efficiency: N/A
Efficacy: 133.8 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

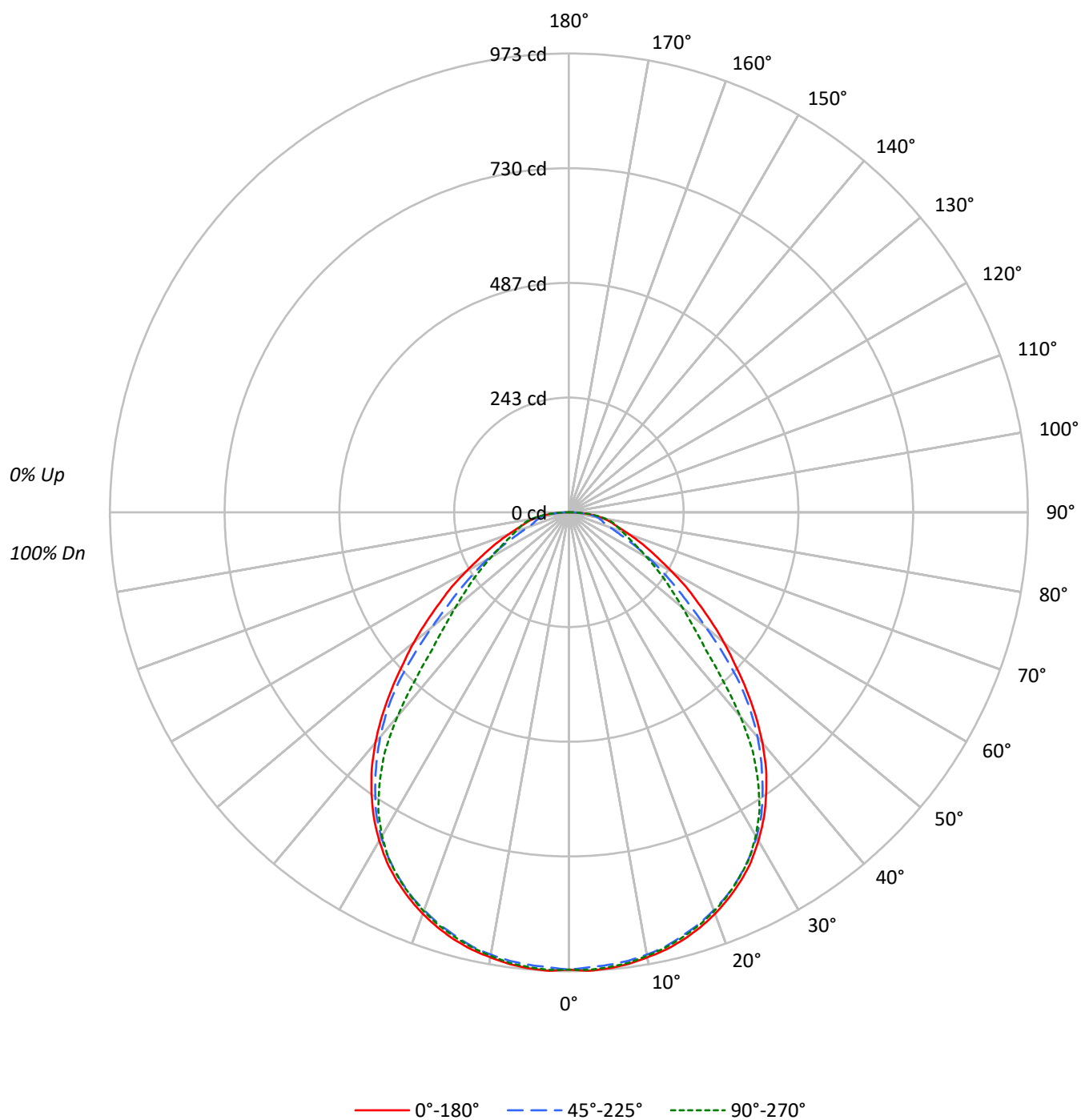
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2609	2609	2609
5°	2622	2602	2615
10°	2619	2602	2609
15°	2614	2590	2599
20°	2595	2571	2578
25°	2561	2536	2537
30°	2498	2472	2462
35°	2396	2352	2299
40°	2243	2186	1989
45°	2025	1949	1554
50°	1796	1582	1315
55°	1568	1298	1160
60°	1359	1068	1024
65°	1192	858	945
70°	1064	727	951
75°	1038	766	1063
80°	1150	967	1218
85°	1198	1031	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	4.3
10°-20°	263.5	12.5
20°-30°	394.2	18.6
30°-40°	445.0	21.0
40°-50°	377.5	17.8
50°-60°	255.5	12.1
60°-70°	152.5	7.2
70°-80°	95.5	4.5
80°-90°	40.2	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°	749.8	35.4
0°-40°	1194.8	56.5
0°-60°	1827.9	86.4
0°-90°	2116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	971	968	963	970	968	92
15°	938	936	930	936	933	265
25°	862	860	854	858	855	397
35°	729	724	716	710	700	454
45°	532	534	512	439	408	410
55°	334	318	277	248	247	301
65°	187	155	135	144	148	187
75°	100	89	74	97	102	107
85°	39	37	33	43	46	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	969.6	969.6	969.6	969.6	969.6
2.5°	973.1	970.1	965.7	971.6	971.1
5°	970.6	967.7	963.3	970.1	968.2
7.5°	966.2	963.7	959.3	965.7	963.7
10°	958.3	956.4	952.4	957.8	954.9
12.5°	950.0	948.5	943.6	948.5	945.6
15°	938.2	936.2	929.8	936.2	932.8
17.5°	923.4	921.0	915.6	921.0	918.0
20°	906.2	903.3	897.9	903.3	900.3
22.5°	885.6	883.1	878.2	883.1	879.2
25°	862.5	859.6	854.2	858.1	854.6
27.5°	836.0	832.0	827.1	830.1	828.1
30°	804.0	799.1	795.7	795.7	792.2
32.5°	769.1	765.7	759.8	756.4	751.9
35°	729.3	724.4	716.1	709.7	699.8
37.5°	686.6	680.7	670.3	654.1	640.9
40°	638.4	631.0	622.2	590.2	566.2
42.5°	586.8	585.3	570.1	515.5	482.1
45°	532.2	534.2	512.1	438.9	408.4
47.5°	477.2	484.1	443.8	372.0	356.3
50°	429.0	431.5	377.9	322.9	314.0
52.5°	379.4	375.5	322.4	284.1	277.7
55°	334.2	318.5	276.7	247.7	247.2
57.5°	294.4	265.4	236.4	214.8	217.2
60°	252.6	220.2	198.5	186.8	190.2
62.5°	215.7	184.8	165.6	162.2	168.1
65°	187.2	155.3	134.7	143.5	148.4
67.5°	160.2	133.2	109.6	130.7	132.7
70°	135.2	115.5	92.4	120.4	120.9
72.5°	114.5	102.2	80.1	109.1	110.6
75°	99.8	89.0	73.7	97.3	102.2
77.5°	87.5	76.2	68.3	84.0	92.4
80°	74.2	61.4	62.4	70.3	78.6
82.5°	57.0	47.7	49.6	58.0	63.9
85°	38.8	36.9	33.4	43.2	46.2
87.5°	20.6	19.7	17.2	24.6	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)