

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: P290953

Luminaire Tested: **14GR-LD5-20-A-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290953
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-L83050-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2209.0 lumens
Efficiency: N/A
Efficacy: 135.7 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

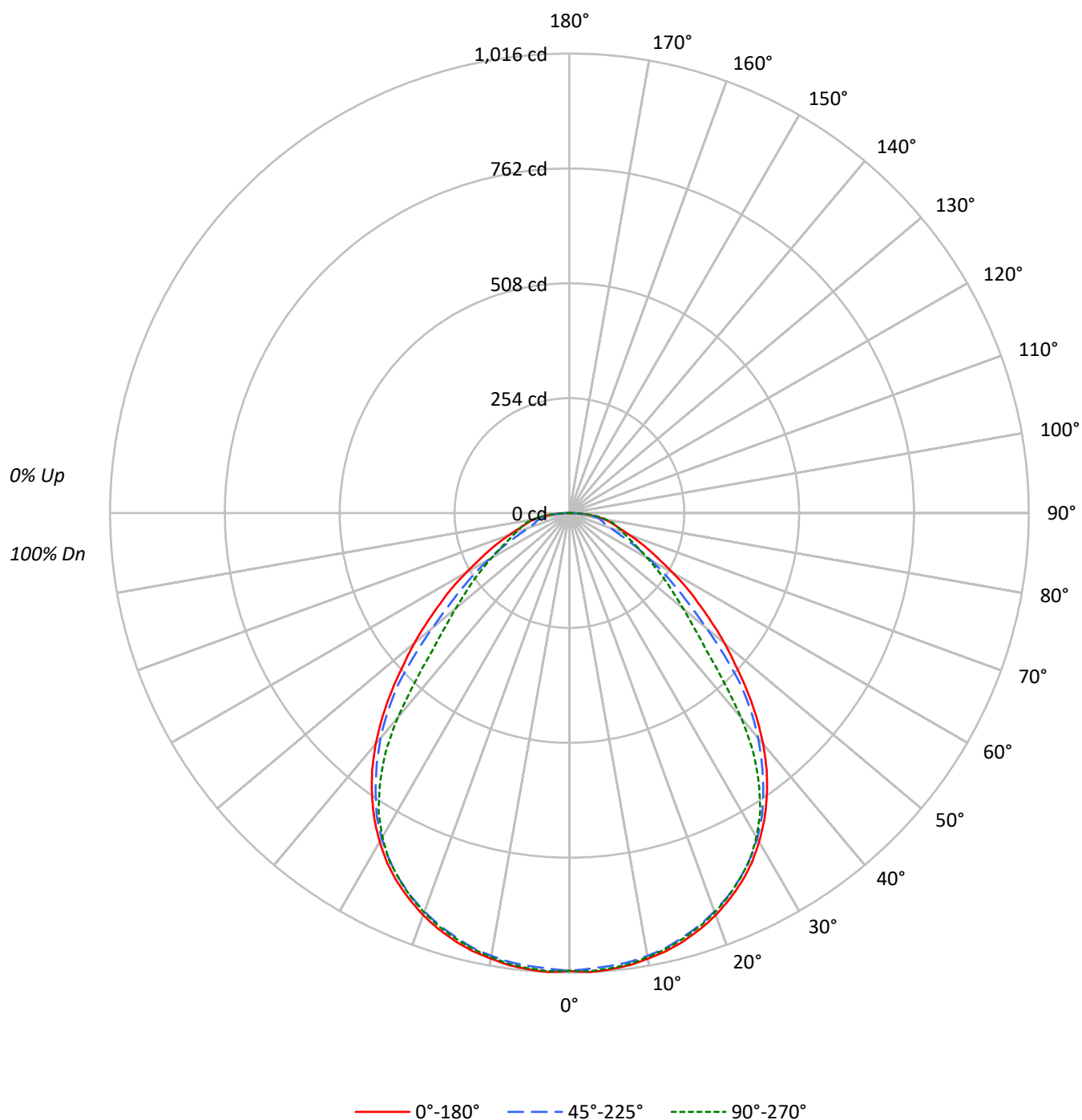
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	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°	2724	2724	2724
5°	2737	2716	2730
10°	2734	2717	2724
15°	2729	2704	2713
20°	2709	2684	2692
25°	2673	2648	2649
30°	2608	2581	2570
35°	2501	2456	2400
40°	2341	2282	2076
45°	2114	2034	1623
50°	1875	1652	1372
55°	1637	1355	1211
60°	1419	1116	1069
65°	1245	895	986
70°	1110	759	993
75°	1083	801	1109
80°	1201	1010	1272
85°	1250	1078	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	4.3
10°-20°	275.1	12.5
20°-30°	411.6	18.6
30°-40°	464.6	21.0
40°-50°	394.2	17.8
50°-60°	266.7	12.1
60°-70°	159.2	7.2
70°-80°	99.7	4.5
80°-90°	41.9	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°	782.8	35.4
0°-40°	1247.4	56.5
0°-60°	1908.2	86.4
0°-90°	2209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1013	1010	1006	1013	1011	96
15°	979	977	971	977	974	276
25°	900	897	892	896	892	414
35°	761	756	748	741	731	474
45°	556	558	535	458	426	428
55°	349	332	289	259	258	314
65°	196	162	141	150	155	195
75°	104	93	77	102	107	112
85°	40	38	35	45	48	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1015.9	1012.8	1008.2	1014.3	1013.8
5°	1013.3	1010.2	1005.6	1012.8	1010.7
7.5°	1008.7	1006.1	1001.5	1008.2	1006.1
10°	1000.5	998.4	994.3	999.9	996.9
12.5°	991.7	990.2	985.1	990.2	987.1
15°	979.4	977.4	970.7	977.4	973.8
17.5°	964.0	961.5	955.8	961.5	958.4
20°	946.1	943.0	937.4	943.0	939.9
22.5°	924.5	922.0	916.8	922.0	917.9
25°	900.4	897.3	891.7	895.8	892.2
27.5°	872.7	868.6	863.5	866.6	864.5
30°	839.4	834.2	830.6	830.6	827.0
32.5°	802.9	799.3	793.2	789.6	785.0
35°	761.4	756.2	747.5	740.9	730.6
37.5°	716.7	710.6	699.8	682.9	669.0
40°	666.5	658.8	649.5	616.2	591.0
42.5°	612.6	611.1	595.1	538.2	503.3
45°	555.6	557.7	534.6	458.2	426.4
47.5°	498.2	505.4	463.3	388.4	372.0
50°	447.9	450.5	394.5	337.1	327.8
52.5°	396.1	392.0	336.6	296.5	289.9
55°	348.9	332.5	288.9	258.6	258.1
57.5°	307.3	277.1	246.8	224.2	226.8
60°	263.7	229.8	207.3	195.0	198.6
62.5°	225.2	192.9	172.9	169.3	175.5
65°	195.5	162.1	140.6	149.8	154.9
67.5°	167.3	139.0	114.4	136.5	138.5
70°	141.1	120.6	96.5	125.7	126.2
72.5°	119.5	106.7	83.6	113.9	115.4
75°	104.2	92.9	77.0	101.6	106.7
77.5°	91.3	79.5	71.3	87.7	96.5
80°	77.5	64.1	65.2	73.4	82.1
82.5°	59.5	49.8	51.8	60.5	66.7
85°	40.5	38.5	34.9	45.1	48.2
87.5°	21.5	20.5	18.0	25.7	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)