

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: P225844

Luminaire Tested: **14GR-LD5-20-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A19/156-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1825.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

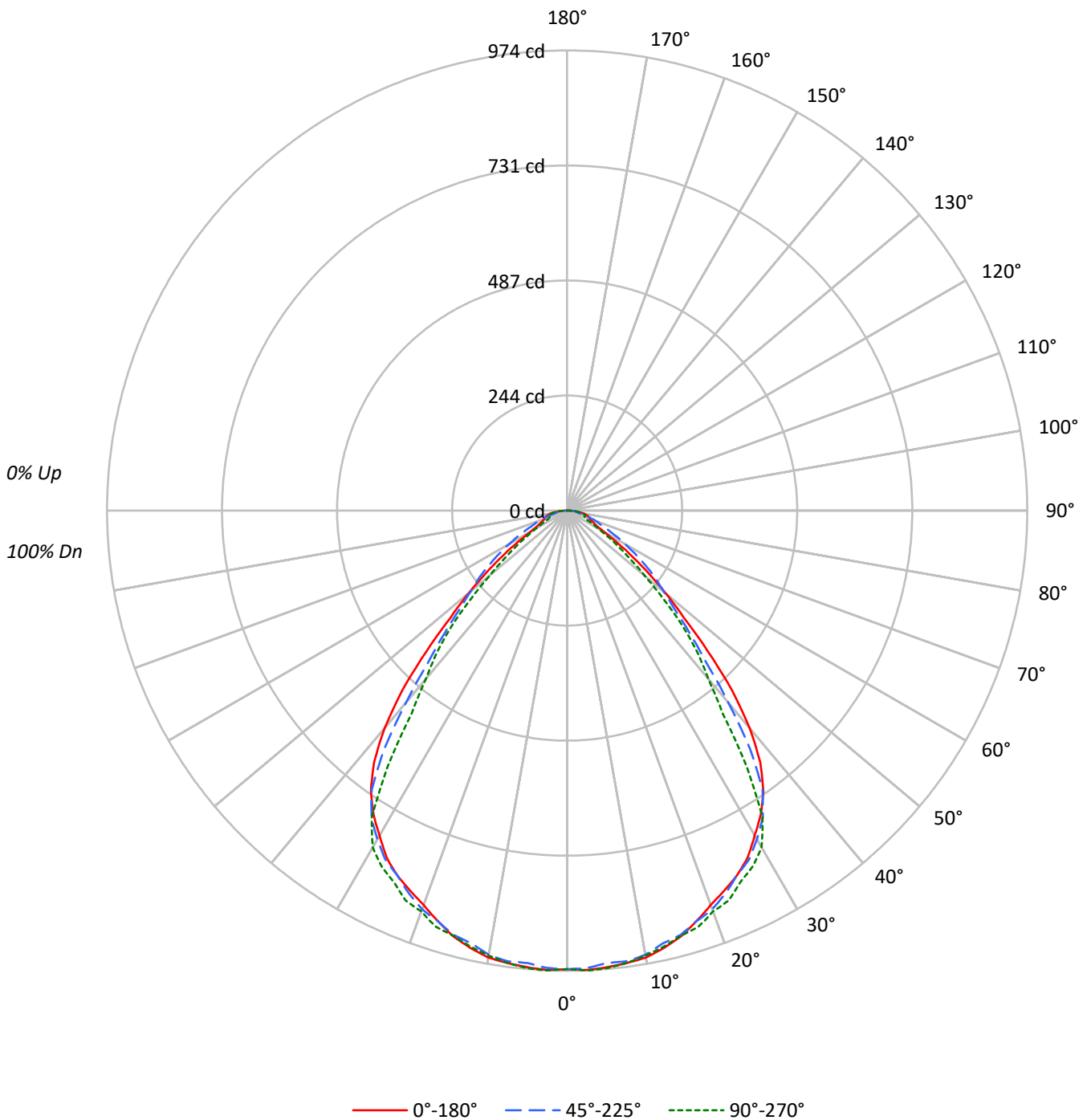
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90					88				
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79					77				
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70					68				
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63					61				
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56					54				
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51					49				
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46					44				
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42					40				
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38					37				
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35					34				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3271	3271	3271
5°	3282	3251	3289
10°	3287	3267	3273
15°	3254	3242	3249
20°	3186	3220	3238
25°	3166	3165	3225
30°	3089	3126	3203
35°	2979	2967	2726
40°	2645	2334	2044
45°	2007	1746	1653
50°	1424	1398	1121
55°	975	1193	771
60°	603	952	515
65°	496	733	373
70°	494	638	383
75°	594	457	512
80°	681	421	640
85°	646	742	727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	5.0
10°-20°	262.9	14.4
20°-30°	395.3	21.7
30°-40°	431.0	23.6
40°-50°	301.8	16.5
50°-60°	170.8	9.4
60°-70°	93.5	5.1
70°-80°	56.6	3.1
80°-90°	21.5	1.2
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°	750.3	41.1
0°-40°	1181.3	64.7
0°-60°	1653.9	90.6
0°-90°	1825.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1825.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	970	969	961	972	972	92
15°	933	930	929	943	931	262
25°	852	853	851	871	868	391
35°	724	721	721	684	663	446
45°	421	440	366	362	347	327
55°	166	198	203	201	131	152
65°	62	102	92	116	47	64
75°	46	66	35	69	39	47
85°	17	27	19	23	19	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.7	970.7	970.7	970.7	970.7
2.5°	973.2	972.0	969.1	974.9	974.4
5°	970.3	968.6	961.1	972.3	972.3
7.5°	966.1	962.0	962.3	968.6	965.7
10°	960.7	953.6	954.9	956.5	956.5
12.5°	948.1	941.5	938.1	943.6	945.2
15°	932.7	930.2	929.4	942.7	931.4
17.5°	910.9	916.4	911.4	922.2	923.9
20°	888.4	898.8	898.0	905.5	903.0
22.5°	870.0	876.7	876.7	885.9	893.4
25°	851.6	853.3	851.2	870.9	867.5
27.5°	827.8	826.6	833.2	843.3	849.9
30°	794.0	794.3	803.5	816.9	823.2
32.5°	763.0	759.3	770.6	776.4	769.7
35°	724.2	720.8	721.3	684.5	662.8
37.5°	671.1	674.0	635.5	568.3	539.9
40°	601.3	607.2	530.7	480.6	464.6
42.5°	516.9	518.6	435.0	418.7	408.2
45°	421.2	439.6	366.5	361.9	346.8
47.5°	333.9	368.2	307.1	310.0	274.1
50°	271.6	305.9	266.6	267.8	213.9
52.5°	214.8	248.2	235.2	231.5	168.0
55°	165.9	198.5	203.1	201.4	131.2
57.5°	122.0	157.2	170.5	176.7	101.1
60°	89.5	128.3	141.2	153.8	76.4
62.5°	71.1	111.1	115.8	134.1	59.3
65°	62.2	102.4	91.9	116.2	46.8
67.5°	55.6	97.4	74.8	102.8	41.0
70°	50.1	87.7	64.8	91.9	38.9
72.5°	50.1	76.9	51.0	81.4	39.3
75°	45.6	65.6	35.1	69.0	39.3
77.5°	40.5	56.0	26.3	56.0	36.8
80°	35.1	43.9	21.7	43.0	33.0
82.5°	25.9	33.0	18.8	32.2	26.8
85°	16.7	27.1	19.2	23.4	18.8
87.5°	7.9	13.8	12.1	11.7	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)