

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: P225740

Luminaire Tested: **22GR-LD5-20-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A19/156-UNV-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1641.7 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

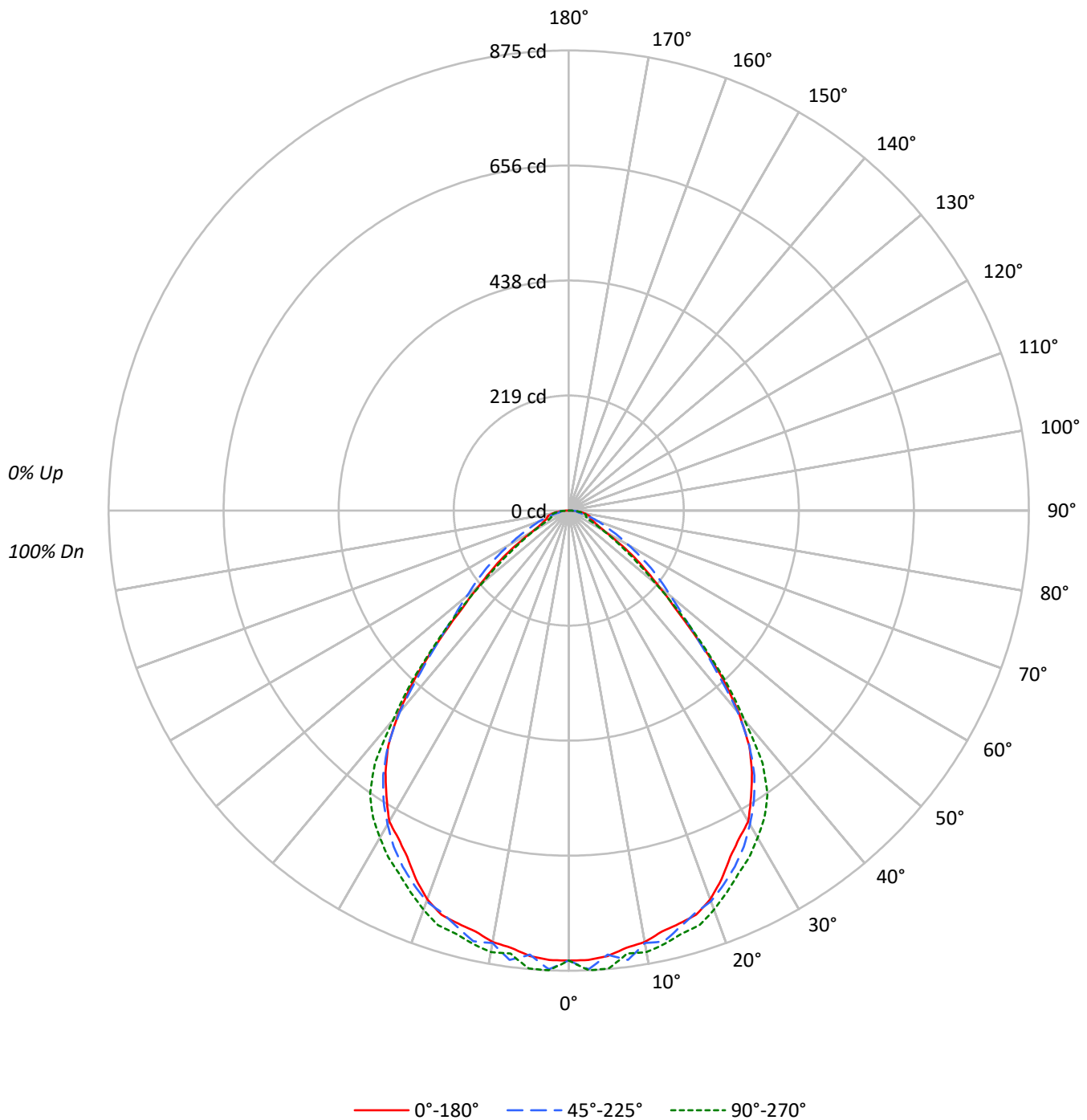
Input Watts (W): 16.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99		101	98	96		97	95	93		93	91	90
2	103	96	90	85	100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74	93	85	79	73		82	77	72		79	75	71		77	73	70
4	88	78	71	65	86	77	70	64		75	68	64		72	67	63		70	66	62
5	82	71	63	58	80	70	63	57		68	62	57		66	61	56		64	59	56
6	77	65	57	51	75	64	57	51		62	56	51		61	55	50		59	54	50
7	72	60	52	46	70	59	51	46		57	51	46		56	50	46		55	49	45
8	67	55	47	42	66	54	47	42		53	46	42		52	46	41		51	45	41
9	63	51	43	38	62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35	58	47	40	35		46	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2740	2740	2740
5°	2733	2724	2810
10°	2708	2716	2772
15°	2695	2716	2760
20°	2681	2694	2752
25°	2567	2639	2694
30°	2524	2547	2656
35°	2374	2404	2575
40°	2104	2089	2172
45°	1571	1575	1619
50°	1107	1259	1072
55°	816	1063	732
60°	510	840	478
65°	416	665	334
70°	413	554	330
75°	512	407	426
80°	570	321	520
85°	570	595	581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	5.0
10°-20°	232.0	14.1
20°-30°	343.6	20.9
30°-40°	384.9	23.4
40°-50°	282.8	17.2
50°-60°	158.1	9.6
60°-70°	88.1	5.4
70°-80°	51.8	3.2
80°-90°	19.0	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°	657.0	40.0
0°-40°	1041.9	63.5
0°-60°	1482.7	90.3
0°-90°	1641.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1641.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	850	866	848	865	874	80
15°	813	818	819	832	832	230
25°	726	732	747	757	762	337
35°	607	608	615	643	659	376
45°	347	375	348	372	357	271
55°	146	178	190	190	131	130
65°	55	98	88	113	44	57
75°	41	58	33	66	34	42
85°	16	23	16	21	16	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.6	855.6	855.6	855.6	855.6
2.5°	855.2	862.9	873.0	874.1	874.9
5°	850.2	866.0	847.5	864.9	874.1
7.5°	838.5	848.2	861.7	844.4	849.4
10°	832.8	835.1	835.1	856.7	852.5
12.5°	819.6	835.1	838.9	834.7	843.9
15°	813.0	818.0	819.2	831.6	832.4
17.5°	805.6	804.5	801.8	810.7	826.6
20°	786.7	782.4	790.6	801.4	807.6
22.5°	758.9	760.1	769.7	778.6	785.6
25°	726.4	732.2	746.9	757.4	762.4
27.5°	702.0	710.5	720.6	733.0	743.0
30°	682.6	681.9	688.9	706.7	718.2
32.5°	645.2	647.9	655.2	676.5	692.7
35°	607.3	607.6	615.0	642.9	658.7
37.5°	563.6	560.5	564.7	594.9	605.3
40°	503.2	504.0	499.7	521.0	519.5
42.5°	432.8	439.0	417.0	444.8	442.9
45°	346.9	375.2	347.8	372.4	357.4
47.5°	273.9	315.6	292.8	310.9	282.7
50°	222.1	264.9	252.6	260.7	215.1
52.5°	182.2	217.0	220.8	222.8	167.9
55°	146.2	177.9	190.3	189.9	131.1
57.5°	107.9	144.6	159.0	164.7	99.4
60°	79.7	120.3	131.1	143.9	74.6
62.5°	64.2	105.6	108.3	126.1	56.8
65°	54.9	97.5	87.8	112.6	44.1
67.5°	48.7	90.9	71.6	100.5	37.6
70°	44.1	80.9	59.2	90.1	35.2
72.5°	43.0	68.9	45.7	80.4	34.8
75°	41.4	58.4	32.9	66.2	34.4
77.5°	35.6	49.9	23.6	51.1	32.1
80°	30.9	39.9	17.4	38.3	28.2
82.5°	23.9	30.2	15.5	29.0	22.8
85°	15.5	22.8	16.2	20.9	15.8
87.5°	7.4	12.8	11.6	11.2	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)