

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: P219256

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-A19/156-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6536.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

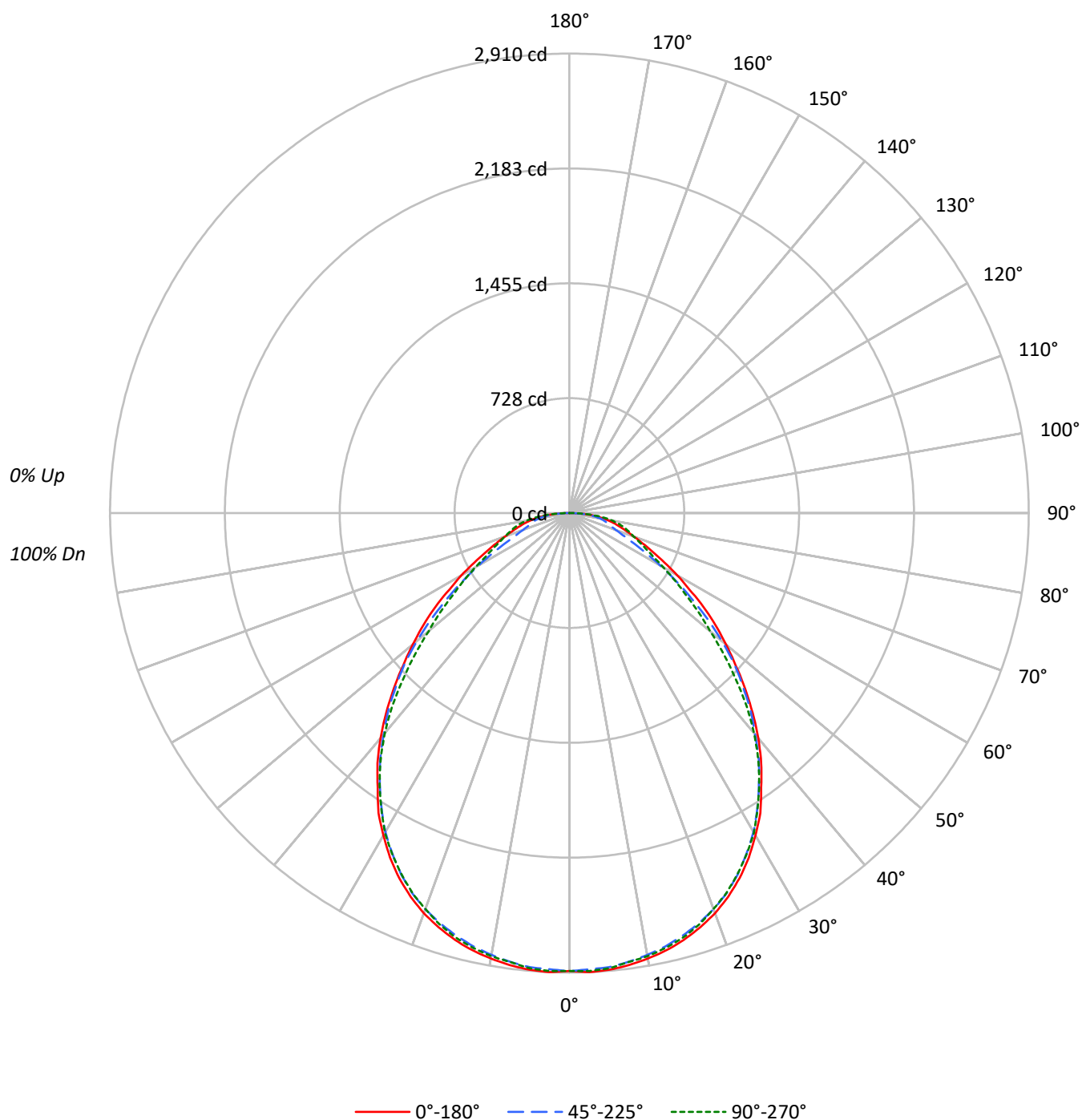
Input Watts (W): 56.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4442	4442	4442
5°	4463	4439	4449
10°	4455	4419	4432
15°	4438	4394	4413
20°	4396	4352	4350
25°	4311	4264	4261
30°	4168	4125	4134
35°	3959	3914	3920
40°	3723	3658	3636
45°	3412	3366	3233
50°	3085	3000	2774
55°	2769	2521	2392
60°	2425	2029	2104
65°	2115	1596	1936
70°	1935	1393	1935
75°	1936	1482	2133
80°	2102	1746	2431
85°	2307	1970	2608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.6	4.2
10°-20°	783.7	12.0
20°-30°	1162.1	17.8
30°-40°	1311.0	20.1
40°-50°	1187.4	18.2
50°-60°	856.6	13.1
60°-70°	511.5	7.8
70°-80°	316.1	4.8
80°-90°	133.2	2.0
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°	2220.5	34.0
0°-40°	3531.5	54.0
0°-60°	5575.5	85.3
0°-90°	6536.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6536.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2900	2900	2900	2900	2900	
5°	2903	2899	2887	2884	2894	276
15°	2799	2782	2771	2772	2783	789
25°	2551	2536	2523	2514	2521	1172
35°	2118	2114	2093	2094	2096	1325
45°	1575	1565	1554	1516	1492	1214
55°	1037	1005	944	898	896	926
65°	584	514	440	500	534	587
75°	327	284	250	312	360	349
85°	131	115	112	146	148	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2900.1	2900.1	2900.1	2900.1	2900.1
2.5°	2910.2	2902.1	2892.0	2898.1	2903.1
5°	2903.1	2899.1	2887.0	2884.0	2894.0
7.5°	2888.0	2877.9	2866.8	2871.8	2867.8
10°	2864.8	2855.7	2841.5	2842.6	2849.6
12.5°	2836.5	2825.4	2810.2	2814.3	2820.3
15°	2799.1	2782.0	2770.9	2771.9	2783.0
17.5°	2751.7	2738.6	2724.4	2727.5	2732.5
20°	2697.1	2690.1	2669.8	2663.8	2668.8
22.5°	2628.4	2615.3	2604.2	2601.1	2602.2
25°	2550.7	2536.5	2523.4	2514.3	2521.4
27.5°	2459.8	2447.7	2430.5	2427.5	2433.5
30°	2356.8	2347.7	2332.6	2328.5	2337.6
32.5°	2251.8	2236.7	2215.5	2215.5	2217.5
35°	2117.5	2114.5	2093.3	2094.3	2096.3
37.5°	1996.4	1982.2	1970.1	1958.0	1964.1
40°	1862.0	1845.8	1829.7	1821.6	1818.6
42.5°	1717.6	1705.5	1698.4	1669.1	1662.1
45°	1575.2	1565.2	1554.0	1515.7	1492.5
47.5°	1429.9	1427.8	1418.8	1351.1	1327.9
50°	1294.6	1291.5	1259.2	1187.5	1164.3
52.5°	1166.3	1146.1	1103.6	1033.0	1028.9
55°	1037.0	1004.7	944.1	897.7	895.7
57.5°	900.7	862.3	800.7	775.5	788.6
60°	791.7	733.1	662.4	665.5	686.7
62.5°	678.6	613.0	543.3	573.6	598.8
65°	583.7	514.0	440.3	499.9	534.2
67.5°	500.9	436.3	365.5	445.4	478.7
70°	432.2	379.7	311.0	394.8	432.2
72.5°	377.7	329.1	275.6	354.4	397.9
75°	327.1	283.7	250.4	312.0	360.5
77.5°	283.7	241.3	226.2	275.6	323.1
80°	238.3	199.9	197.9	240.3	275.6
82.5°	185.8	159.5	159.5	200.9	222.1
85°	131.3	115.1	112.1	146.4	148.4
87.5°	67.6	64.6	58.6	76.7	76.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)