

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: P219204

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219204
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-LD5-30-A19/156-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2411.7 lumens
Efficiency: N/A
Efficacy: 102.9 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

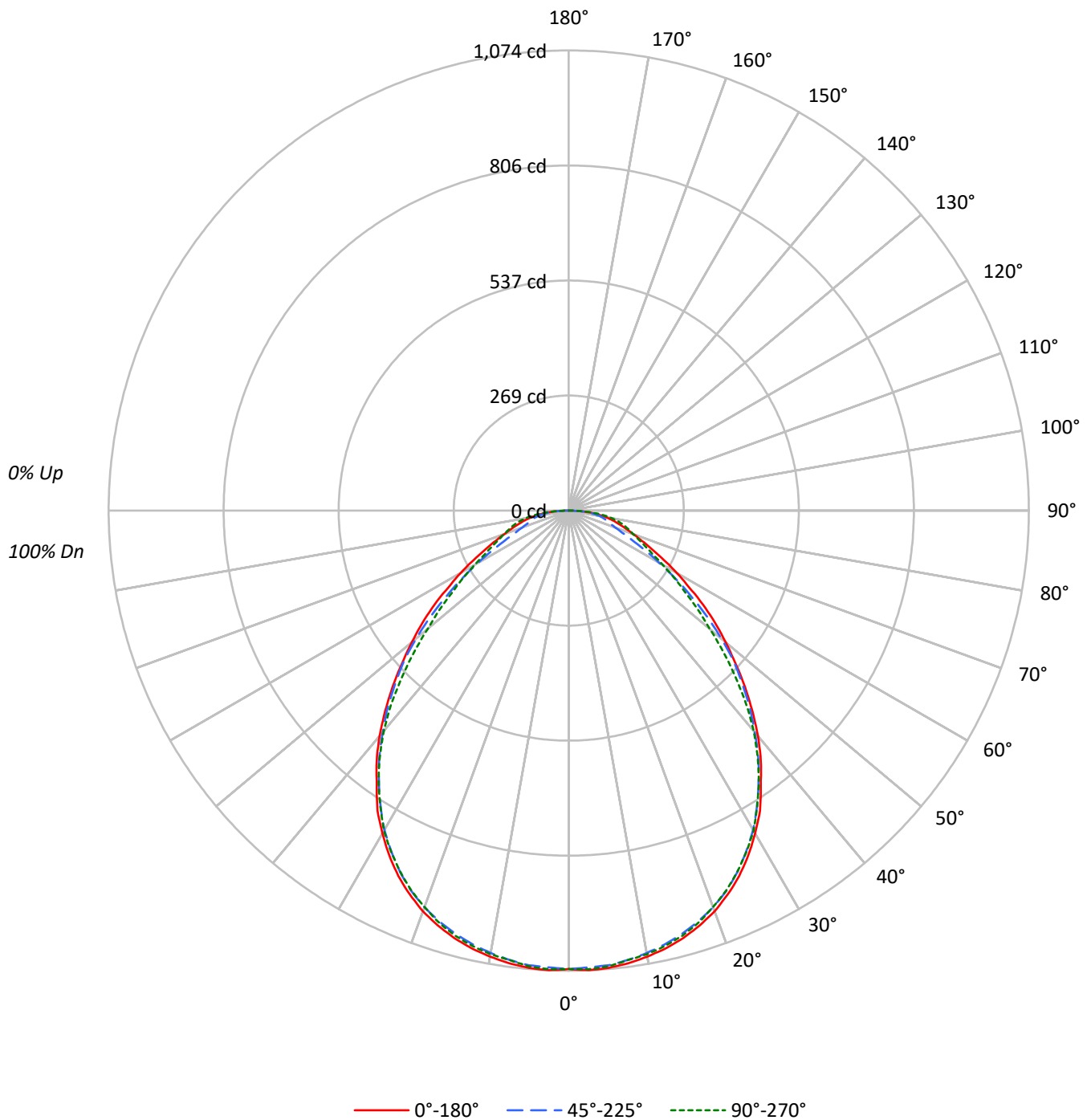
Input Watts (W): 23.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1639	1639	1639
5°	1647	1638	1642
10°	1644	1631	1635
15°	1638	1621	1628
20°	1622	1606	1605
25°	1590	1574	1572
30°	1538	1522	1526
35°	1461	1444	1446
40°	1374	1350	1342
45°	1259	1242	1193
50°	1138	1107	1024
55°	1022	930	883
60°	895	749	776
65°	780	589	714
70°	714	514	714
75°	714	547	787
80°	775	645	897
85°	852	726	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	4.2
10°-20°	289.2	12.0
20°-30°	428.8	17.8
30°-40°	483.7	20.1
40°-50°	438.1	18.2
50°-60°	316.1	13.1
60°-70°	188.7	7.8
70°-80°	116.6	4.8
80°-90°	49.1	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°	819.3	34.0
0°-40°	1303.0	54.0
0°-60°	2057.2	85.3
0°-90°	2411.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2411.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1071	1070	1065	1064	1068	102
15°	1033	1026	1022	1023	1027	291
25°	941	936	931	928	930	432
35°	781	780	772	773	774	489
45°	581	578	573	559	551	448
55°	383	371	348	331	330	342
65°	215	190	162	184	197	217
75°	121	105	92	115	133	129
85°	48	42	41	54	55	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1073.8	1070.8	1067.1	1069.3	1071.2
5°	1071.2	1069.7	1065.2	1064.1	1067.8
7.5°	1065.6	1061.8	1057.8	1059.6	1058.1
10°	1057.0	1053.7	1048.5	1048.8	1051.4
12.5°	1046.6	1042.5	1036.9	1038.4	1040.7
15°	1032.8	1026.5	1022.4	1022.7	1026.8
17.5°	1015.3	1010.4	1005.2	1006.3	1008.2
20°	995.2	992.5	985.1	982.9	984.7
22.5°	969.8	965.0	960.9	959.8	960.1
25°	941.1	935.9	931.1	927.7	930.4
27.5°	907.6	903.1	896.8	895.7	897.9
30°	869.6	866.2	860.7	859.2	862.6
32.5°	830.8	825.2	817.5	817.5	818.2
35°	781.3	780.1	772.4	772.8	773.5
37.5°	736.6	731.4	726.9	722.4	724.6
40°	687.1	681.1	675.1	672.2	671.0
42.5°	633.8	629.3	626.6	615.9	613.3
45°	581.2	577.5	573.4	559.2	550.7
47.5°	527.6	526.8	523.5	498.5	490.0
50°	477.6	476.5	464.6	438.1	429.6
52.5°	430.3	422.9	407.2	381.1	379.7
55°	382.6	370.7	348.3	331.2	330.5
57.5°	332.3	318.2	295.4	286.2	291.0
60°	292.1	270.5	244.4	245.5	253.4
62.5°	250.3	226.2	200.5	211.6	220.9
65°	215.3	189.7	162.4	184.4	197.1
67.5°	184.8	161.0	134.9	164.3	176.6
70°	159.5	140.1	114.7	145.7	159.5
72.5°	139.3	121.4	101.7	130.8	146.8
75°	120.7	104.7	92.4	115.1	133.0
77.5°	104.7	89.1	83.5	101.7	119.2
80°	87.9	73.8	73.1	88.6	101.7
82.5°	68.6	58.9	58.9	74.1	82.0
85°	48.5	42.5	41.3	54.0	54.8
87.5°	24.9	23.9	21.6	28.3	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)