

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: P219205

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219205
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-LD5-34-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: 2713.8 lumens
Efficiency: N/A
Efficacy: 101.4 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

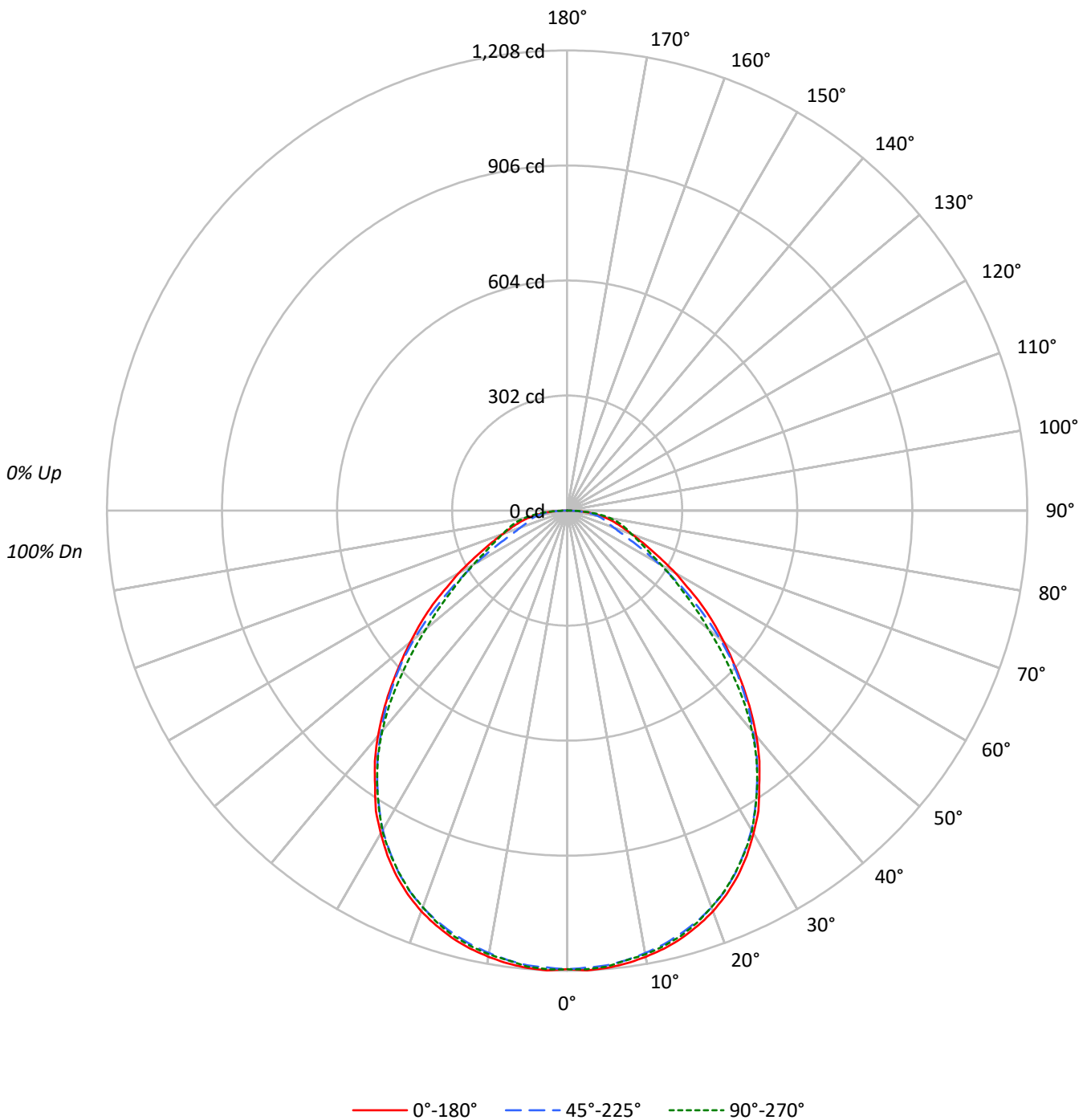
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1844	1844	1844
5°	1853	1843	1847
10°	1850	1835	1840
15°	1843	1824	1832
20°	1825	1807	1806
25°	1790	1771	1769
30°	1731	1713	1717
35°	1644	1625	1627
40°	1546	1519	1510
45°	1417	1398	1342
50°	1281	1246	1152
55°	1150	1047	993
60°	1007	842	873
65°	878	662	804
70°	803	579	803
75°	804	615	885
80°	873	725	1010
85°	958	819	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	4.2
10°-20°	325.4	12.0
20°-30°	482.5	17.8
30°-40°	544.3	20.1
40°-50°	493.0	18.2
50°-60°	355.7	13.1
60°-70°	212.4	7.8
70°-80°	131.3	4.8
80°-90°	55.3	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°	921.9	34.0
0°-40°	1466.2	54.0
0°-60°	2314.9	85.3
0°-90°	2713.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2713.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1205	1204	1199	1197	1202	115
15°	1162	1155	1150	1151	1156	328
25°	1059	1053	1048	1044	1047	487
35°	879	878	869	870	870	550
45°	654	650	645	629	620	504
55°	431	417	392	373	372	384
65°	242	213	183	208	222	244
75°	136	118	104	130	150	145
85°	54	48	47	61	62	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.1	1204.1	1204.1	1204.1	1204.1
2.5°	1208.3	1204.9	1200.7	1203.3	1205.3
5°	1205.3	1203.7	1198.6	1197.4	1201.5
7.5°	1199.0	1194.8	1190.2	1192.4	1190.6
10°	1189.4	1185.6	1179.7	1180.1	1183.1
12.5°	1177.7	1173.0	1166.8	1168.4	1171.0
15°	1162.2	1155.1	1150.4	1150.9	1155.5
17.5°	1142.4	1137.0	1131.1	1132.4	1134.5
20°	1119.8	1116.8	1108.5	1105.9	1108.1
22.5°	1091.3	1085.8	1081.3	1079.9	1080.4
25°	1059.0	1053.1	1047.7	1043.9	1046.9
27.5°	1021.3	1016.2	1009.1	1007.9	1010.4
30°	978.5	974.7	968.4	966.8	970.6
32.5°	934.9	928.6	919.8	919.8	920.7
35°	879.1	877.9	869.1	869.5	870.3
37.5°	828.9	823.0	817.9	812.9	815.4
40°	773.1	766.4	759.6	756.3	755.1
42.5°	713.2	708.1	705.2	693.0	690.1
45°	654.0	649.8	645.3	629.3	619.7
47.5°	593.7	592.8	589.0	561.0	551.3
50°	537.5	536.2	522.8	493.1	483.4
52.5°	484.2	475.8	458.2	428.9	427.2
55°	430.6	417.1	392.0	372.7	371.9
57.5°	374.0	358.0	332.4	322.0	327.4
60°	328.7	304.4	275.0	276.3	285.1
62.5°	281.8	254.4	225.6	238.1	248.6
65°	242.3	213.4	182.8	207.5	221.8
67.5°	208.0	181.1	151.8	184.9	198.7
70°	179.4	157.6	129.2	163.9	179.4
72.5°	156.8	136.7	114.5	147.2	165.1
75°	135.9	117.8	104.0	129.6	149.6
77.5°	117.8	100.2	93.9	114.5	134.2
80°	99.0	83.0	82.2	99.8	114.5
82.5°	77.2	66.3	66.3	83.4	92.2
85°	54.5	47.8	46.6	60.8	61.7
87.5°	28.1	26.8	24.4	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)