

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: P219207

Luminaire Tested: **24GR-LD5-42-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219207
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-LD5-42-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: 3368.9 lumens
Efficiency: N/A
Efficacy: 97.3 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

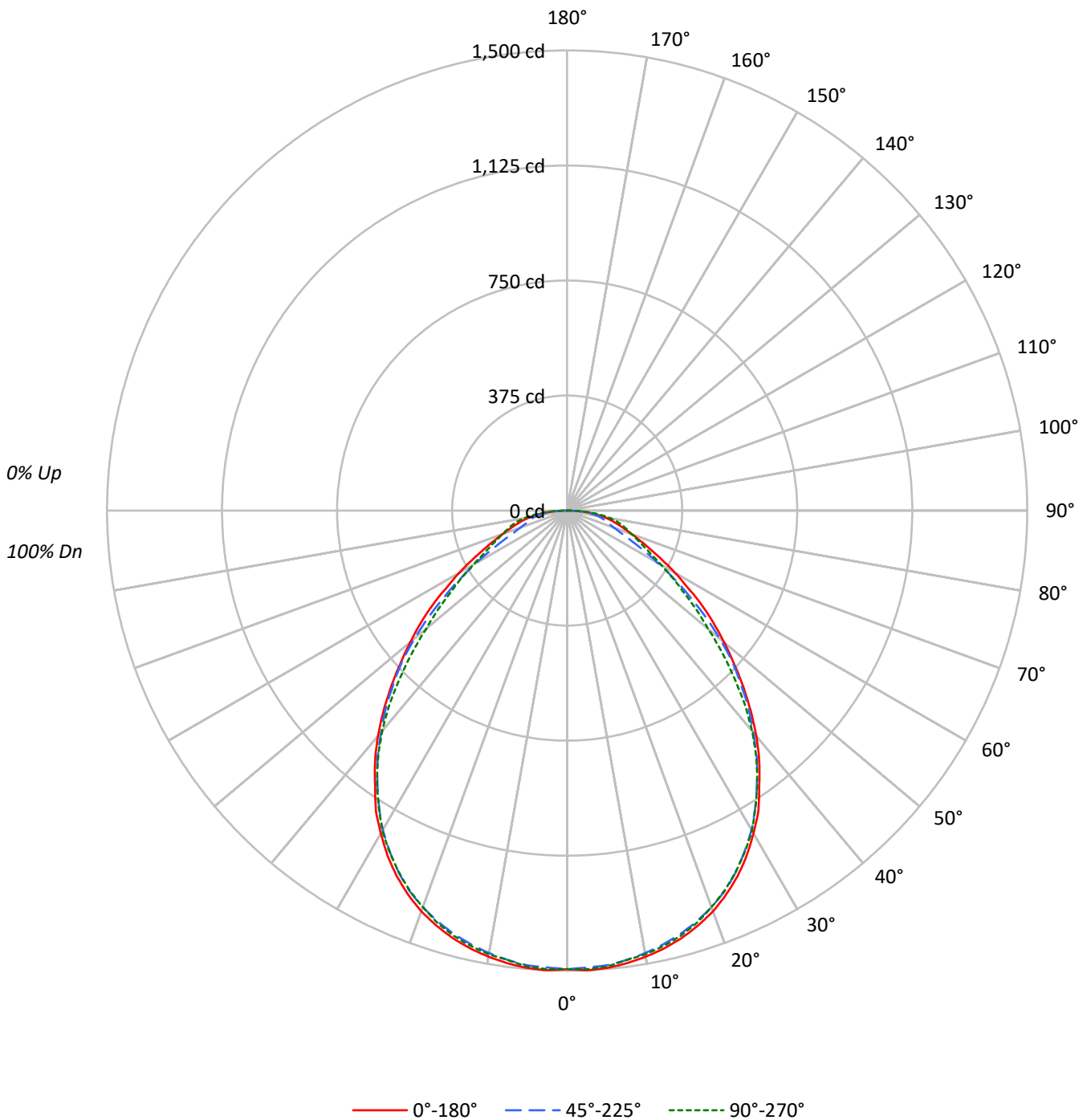
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2289	2289	2289
5°	2301	2288	2293
10°	2296	2278	2284
15°	2288	2264	2274
20°	2266	2243	2242
25°	2222	2198	2196
30°	2148	2126	2131
35°	2041	2017	2020
40°	1919	1886	1874
45°	1759	1735	1666
50°	1590	1546	1430
55°	1427	1299	1233
60°	1250	1046	1084
65°	1091	822	998
70°	998	718	998
75°	998	764	1100
80°	1083	900	1253
85°	1188	1016	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	4.2
10°-20°	403.9	12.0
20°-30°	599.0	17.8
30°-40°	675.7	20.1
40°-50°	612.0	18.2
50°-60°	441.5	13.1
60°-70°	263.6	7.8
70°-80°	162.9	4.8
80°-90°	68.6	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°	1144.5	34.0
0°-40°	1820.2	54.0
0°-60°	2873.7	85.3
0°-90°	3368.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1496	1494	1488	1486	1492	142
15°	1443	1434	1428	1429	1434	407
25°	1315	1307	1301	1296	1300	604
35°	1091	1090	1079	1079	1080	683
45°	812	807	801	781	769	626
55°	534	518	487	463	462	477
65°	301	265	227	258	275	303
75°	169	146	129	161	186	180
85°	68	59	58	75	76	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.7	1494.7	1494.7	1494.7	1494.7
2.5°	1499.9	1495.8	1490.6	1493.7	1496.3
5°	1496.3	1494.2	1488.0	1486.4	1491.6
7.5°	1488.5	1483.3	1477.6	1480.2	1478.0
10°	1476.5	1471.8	1464.5	1465.1	1468.7
12.5°	1462.0	1456.2	1448.4	1450.5	1453.6
15°	1442.7	1433.9	1428.1	1428.6	1434.3
17.5°	1418.2	1411.5	1404.2	1405.7	1408.4
20°	1390.1	1386.5	1376.0	1372.9	1375.6
22.5°	1354.7	1348.0	1342.3	1340.7	1341.2
25°	1314.6	1307.4	1300.6	1295.9	1299.5
27.5°	1267.8	1261.6	1252.7	1251.2	1254.3
30°	1214.7	1210.1	1202.2	1200.2	1204.8
32.5°	1160.6	1152.8	1141.8	1141.8	1142.9
35°	1091.4	1089.9	1078.9	1079.4	1080.4
37.5°	1028.9	1021.6	1015.4	1009.2	1012.3
40°	959.7	951.4	943.1	938.9	937.3
42.5°	885.3	879.0	875.4	860.3	856.7
45°	811.9	806.7	801.0	781.2	769.2
47.5°	736.9	735.9	731.2	696.3	684.4
50°	667.2	665.7	649.0	612.0	600.1
52.5°	601.1	590.7	568.8	532.4	530.4
55°	534.5	517.8	486.6	462.6	461.7
57.5°	464.2	444.4	412.7	399.7	406.5
60°	408.0	377.9	341.4	343.0	353.9
62.5°	349.7	315.9	280.0	295.6	308.6
65°	300.9	264.9	226.9	257.6	275.4
67.5°	258.1	224.8	188.4	229.5	246.7
70°	222.8	195.7	160.3	203.5	222.8
72.5°	194.7	169.7	142.1	182.7	205.1
75°	168.6	146.2	129.1	160.8	185.8
77.5°	146.2	124.4	116.6	142.1	166.5
80°	122.8	103.1	102.0	123.9	142.1
82.5°	95.8	82.2	82.2	103.6	114.5
85°	67.6	59.4	57.8	75.4	76.5
87.5°	34.8	33.3	30.2	39.5	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)