

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: P219130

Luminaire Tested: **24GR-LD5-34-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219130
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-A-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3238.6 lumens
Efficiency: N/A
Efficacy: 121.0 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

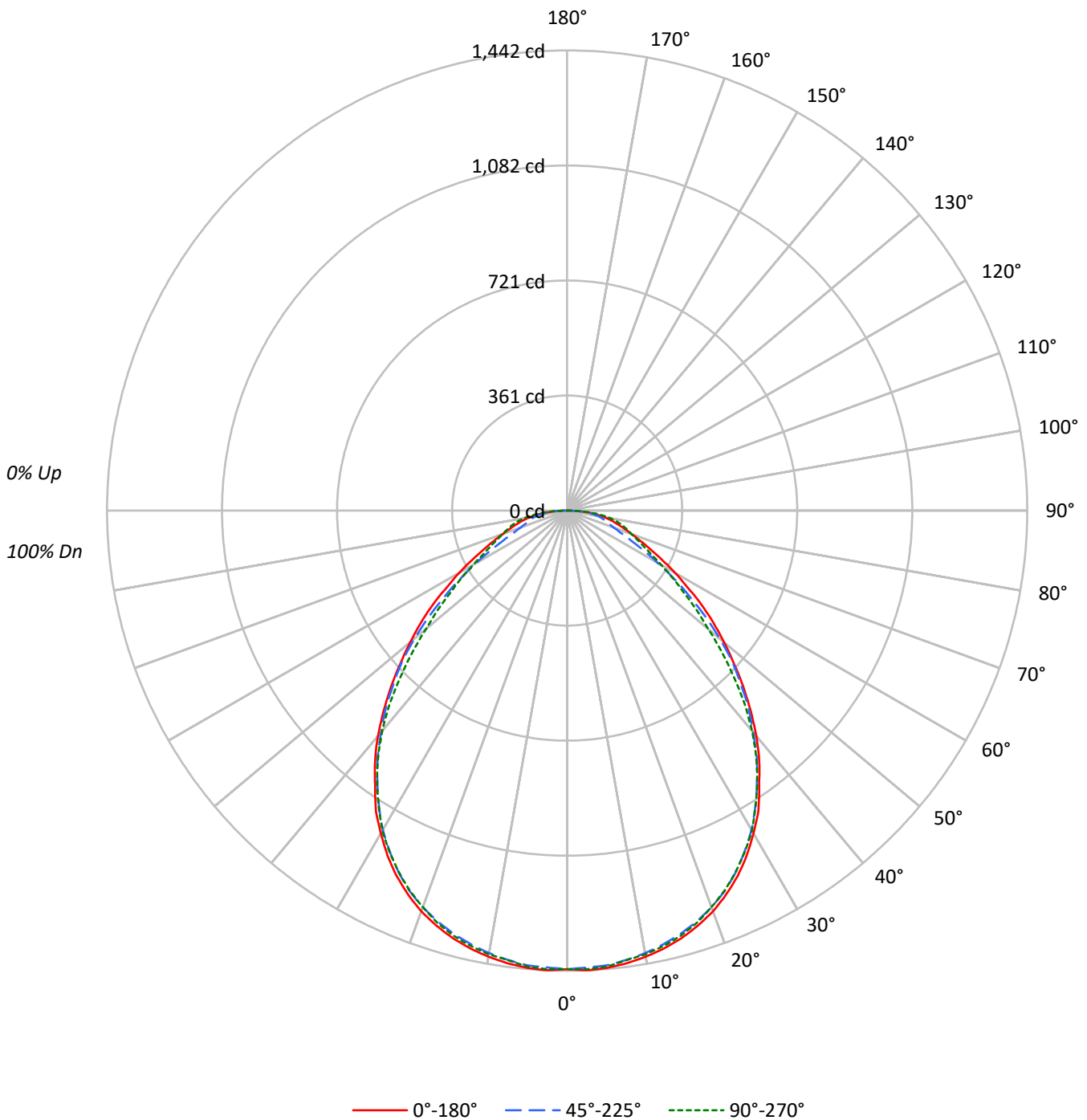
Input Watts (W): 26.756
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219130

CATALOG NUMBER: 24GR-LD5-34-A-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P219130

CATALOG NUMBER: 24GR-LD5-34-A-UNV-L950-CD1-U

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°	2201	2201	2201
5°	2212	2199	2205
10°	2208	2190	2196
15°	2199	2177	2186
20°	2178	2156	2155
25°	2136	2113	2111
30°	2065	2044	2048
35°	1962	1939	1942
40°	1845	1812	1802
45°	1691	1668	1602
50°	1528	1487	1374
55°	1372	1249	1185
60°	1201	1005	1042
65°	1048	790	959
70°	959	690	959
75°	959	734	1057
80°	1042	865	1205
85°	1144	975	1292



TEST NUMBER: P219130

CATALOG NUMBER: 24GR-LD5-34-A-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	4.2
10°-20°	388.3	12.0
20°-30°	575.8	17.8
30°-40°	649.6	20.1
40°-50°	588.3	18.2
50°-60°	424.4	13.1
60°-70°	253.4	7.8
70°-80°	156.6	4.8
80°-90°	66.0	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°	1100.2	34.0
0°-40°	1749.8	54.0
0°-60°	2762.5	85.3
0°-90°	3238.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3238.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1438	1436	1430	1429	1434	137
15°	1387	1378	1373	1373	1379	391
25°	1264	1257	1250	1246	1249	581
35°	1049	1048	1037	1038	1039	656
45°	780	776	770	751	740	601
55°	514	498	468	445	444	459
65°	289	255	218	248	265	291
75°	162	141	124	155	179	173
85°	65	57	56	72	74	68
90°	0	0	0	0	0	



TEST NUMBER: P219130

CATALOG NUMBER: 24GR-LD5-34-A-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.9	1436.9	1436.9	1436.9	1436.9
2.5°	1441.9	1437.9	1432.9	1435.9	1438.4
5°	1438.4	1436.4	1430.4	1428.9	1433.9
7.5°	1430.9	1425.9	1420.4	1422.9	1420.9
10°	1419.4	1414.9	1407.9	1408.4	1411.9
12.5°	1405.4	1399.9	1392.4	1394.4	1397.4
15°	1386.8	1378.4	1372.9	1373.4	1378.8
17.5°	1363.4	1356.9	1349.9	1351.4	1353.9
20°	1336.3	1332.9	1322.9	1319.9	1322.3
22.5°	1302.3	1295.8	1290.3	1288.8	1289.3
25°	1263.8	1256.8	1250.3	1245.8	1249.3
27.5°	1218.8	1212.8	1204.3	1202.7	1205.8
30°	1167.7	1163.3	1155.7	1153.7	1158.2
32.5°	1115.8	1108.2	1097.7	1097.7	1098.7
35°	1049.1	1047.7	1037.1	1037.7	1038.7
37.5°	989.2	982.2	976.2	970.2	973.2
40°	922.6	914.6	906.5	902.5	901.1
42.5°	851.0	845.0	841.6	827.0	823.6
45°	780.5	775.5	770.0	750.9	739.5
47.5°	708.4	707.4	703.0	669.4	657.9
50°	641.4	639.9	623.9	588.4	576.8
52.5°	577.8	567.8	546.8	511.8	509.8
55°	513.8	497.9	467.8	444.8	443.8
57.5°	446.3	427.2	396.8	384.2	390.8
60°	392.2	363.3	328.2	329.7	340.2
62.5°	336.2	303.7	269.2	284.2	296.7
65°	289.2	254.6	218.1	247.7	264.6
67.5°	248.2	216.1	181.1	220.7	237.1
70°	214.1	188.1	154.1	195.6	214.1
72.5°	187.1	163.1	136.6	175.6	197.1
75°	162.1	140.6	124.1	154.6	178.6
77.5°	140.6	119.6	112.1	136.6	160.1
80°	118.1	99.1	98.1	119.1	136.6
82.5°	92.1	79.1	79.1	99.6	110.1
85°	65.1	57.1	55.5	72.5	73.5
87.5°	33.5	32.0	29.0	38.0	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)