

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: CORELITE

Report Number: P286856

Luminaire Tested: **DWI-WA-15L830-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL87014-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DWI-WA-15L830-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM SPECULAR OPTIC, ASYMMETRIC
Light Source: (154) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1402.9 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.55 / 1.46 / 1.61
Luminous Opening: Rectangular (W 3.86' x L: 0.36' x H: 0')
CIE Type: General Diffuse

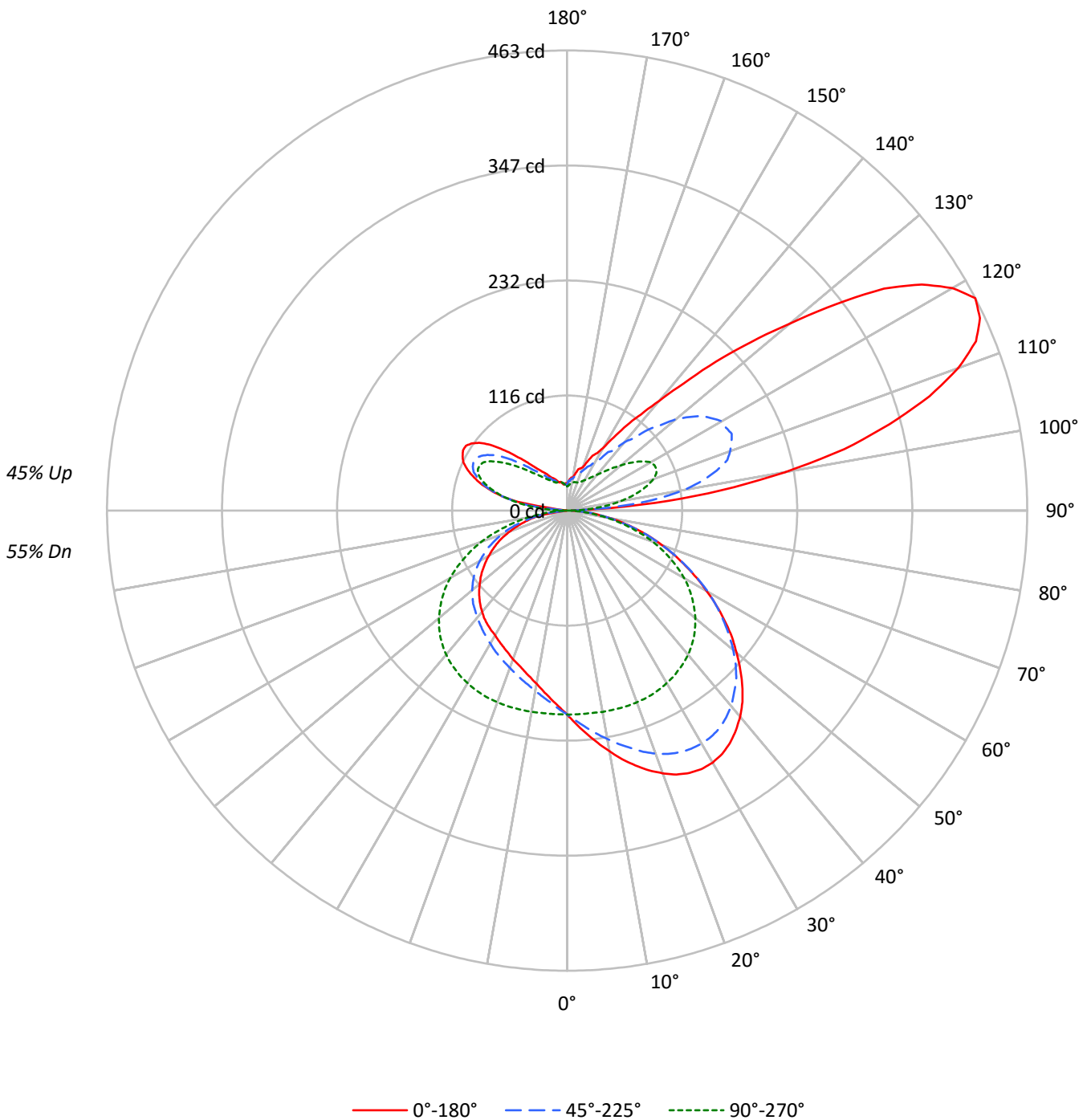
Input Watts (W): 11.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P286856

CATALOG NUMBER: DWI-WA-15L830-1D-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P286856

CATALOG NUMBER: DWI-WA-15L830-1D-UNV-STD-W-WM-4

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	98	94	90	86	91	87	84	80	75	72	70	64	62	60	53	52	51	46
2	89	81	75	69	82	76	70	65	65	61	57	55	52	49	46	44	42	37
3	81	71	63	57	75	66	59	54	57	52	47	48	44	41	40	37	35	31
4	74	62	54	48	68	58	51	45	50	44	40	43	38	34	36	32	29	26
5	68	55	47	41	62	52	44	38	45	38	34	38	33	29	32	28	25	22
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19
7	57	44	36	30	53	42	34	29	36	30	25	31	26	22	26	22	19	17
8	53	40	32	27	49	38	30	25	33	27	22	28	23	20	24	20	17	15
9	49	37	29	24	46	34	27	22	30	24	20	26	21	18	22	18	15	13
10	46	33	26	21	43	31	25	20	27	22	18	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1568	1568	1568
5°	1728	1574	1456
10°	1908	1596	1373
15°	2100	1627	1320
20°	2287	1668	1295
25°	2455	1718	1278
30°	2582	1768	1278
35°	2664	1824	1303
40°	2700	1889	1326
45°	2692	1948	1348
50°	2643	2001	1364
55°	2580	2045	1383
60°	2478	2076	1389
65°	2377	2075	1401
70°	2265	2051	1367
75°	2131	1933	1314
80°	1958	1725	1201
85°	1718	1429	0



TEST NUMBER: P286856

CATALOG NUMBER: DWI-WA-15L830-1D-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	1.4
10°-20°	60.0	4.3
20°-30°	98.7	7.0
30°-40°	128.9	9.2
40°-50°	142.8	10.2
50°-60°	135.8	9.7
60°-70°	108.6	7.7
70°-80°	65.4	4.7
80°-90°	16.3	1.2
90°-100°	41.4	3.0
100°-110°	138.1	9.8
110°-120°	167.9	12.0
120°-130°	134.4	9.6
130°-140°	76.1	5.4
140°-150°	37.2	2.7
150°-160°	19.2	1.4
160°-170°	9.4	0.7
170°-180°	2.8	0.2
0°-30°	178.5	12.7
0°-40°	307.4	21.9
0°-60°	586.1	41.8
0°-90°	776.3	55.3
90°-120°	347.4	24.8
90°-150°	595.1	42.4
90°-180°	627.0	44.7
0°-180°	1402.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	205	205	205	205	205	
5°	225	219	205	194	190	22
15°	266	247	206	176	167	76
25°	291	268	204	162	152	134
35°	286	267	196	148	140	178
45°	249	241	180	134	125	192
55°	194	192	154	114	104	173
65°	132	132	115	87	78	130
75°	72	71	66	51	44	77
85°	20	19	16	1	0	21
90°	5	3	0	0	0	5
95°	89	58	29	3	0	99
105°	336	156	76	79	80	349
115°	458	183	99	105	115	446
125°	389	166	86	98	118	343
135°	212	115	58	67	83	167
145°	105	72	40	44	51	67
155°	61	49	32	34	36	28
165°	43	36	30	29	29	12
175°	32	30	26	27	27	3
180°	24	24	24	24	24	



TEST NUMBER: P286856

CATALOG NUMBER: DWI-WA-15L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2	205.2
2.5°	215.3	215.3	214.8	214.3	213.3	211.9	210.5	209.0	207.6	206.2	205.2
5°	225.3	225.3	224.3	223.4	221.5	219.1	216.2	213.8	210.0	207.1	205.2
7.5°	235.8	235.8	234.4	232.5	230.1	226.3	222.4	218.1	212.4	208.1	205.2
10°	245.9	245.9	244.4	242.5	238.7	233.4	228.2	222.0	215.3	209.0	205.7
12.5°	256.4	256.4	254.0	251.6	246.8	240.6	233.9	225.8	218.1	209.5	205.7
15°	265.5	265.5	263.6	260.7	255.0	247.3	239.2	229.1	220.0	210.5	205.7
17.5°	274.1	274.1	272.2	268.4	262.6	254.5	244.4	232.5	222.0	211.0	205.7
20°	281.3	281.3	279.4	275.5	269.3	260.2	248.7	236.3	223.4	211.4	205.2
22.5°	287.5	287.0	285.1	280.8	274.6	265.0	253.0	238.2	224.8	211.4	204.7
25°	291.3	290.8	288.9	285.1	277.9	268.4	255.4	239.7	225.3	211.4	203.8
27.5°	293.2	292.7	291.3	287.0	280.3	270.3	257.4	241.1	225.3	211.0	202.3
30°	292.7	292.7	290.8	287.5	280.8	270.7	257.8	241.1	224.8	209.5	200.4
32.5°	290.4	289.9	288.4	285.6	279.4	269.8	257.4	240.1	223.9	207.6	198.5
35°	285.6	285.6	284.6	281.7	276.5	267.4	254.5	237.7	221.5	204.7	195.6
37.5°	278.9	278.9	278.4	276.0	271.2	262.6	250.7	234.9	218.1	201.9	192.8
40°	270.7	271.2	270.3	268.4	264.5	256.9	245.9	230.6	214.3	198.0	189.4
42.5°	261.2	261.2	260.2	259.3	255.9	248.7	239.2	224.8	209.5	193.3	185.1
45°	249.2	249.2	248.7	248.3	245.4	240.6	231.5	218.1	203.8	188.0	180.3
47.5°	236.3	236.8	236.3	236.3	234.4	230.1	222.0	209.5	197.1	182.3	174.6
50°	222.4	223.4	222.9	223.4	221.5	218.1	211.4	200.9	189.4	175.6	168.4
52.5°	209.0	208.6	208.1	209.0	208.1	205.2	199.5	191.3	180.3	167.9	161.2
55°	193.7	193.3	193.7	194.7	193.7	191.8	187.5	179.9	170.8	159.8	153.5
57.5°	178.4	177.9	178.4	179.4	178.9	177.9	174.1	167.9	160.7	150.7	145.4
60°	162.2	162.6	163.1	163.6	164.6	163.6	159.8	155.5	149.7	141.1	135.9
62.5°	146.9	146.9	147.8	148.3	148.8	147.8	145.9	142.1	138.2	130.6	125.8
65°	131.5	131.5	132.0	132.5	133.5	132.5	131.1	128.7	125.3	119.1	114.8
67.5°	116.7	116.2	116.7	117.7	117.2	117.2	115.3	114.8	111.9	107.2	103.8
70°	101.4	100.9	101.4	101.4	101.9	101.4	100.9	100.5	98.1	95.7	91.8
72.5°	87.1	86.1	86.6	87.1	86.6	86.6	85.6	85.6	84.2	82.3	78.9
75°	72.2	71.8	71.8	71.8	71.8	71.3	69.8	70.8	70.3	68.9	65.5
77.5°	57.9	57.9	58.4	57.4	57.9	56.4	56.9	56.0	56.4	55.0	52.6
80°	44.5	44.0	44.0	44.0	44.0	43.1	42.6	42.1	43.1	41.6	39.2
82.5°	30.6	31.1	30.6	30.1	30.6	30.6	30.1	29.2	29.7	28.2	26.8
85°	19.6	19.6	19.6	18.7	18.7	18.7	19.1	18.7	18.2	17.2	16.3
87.5°	9.1	9.6	9.6	9.6	9.6	9.1	9.1	8.6	8.1	7.7	7.2
90°	4.8	4.8	4.3	4.3	3.8	3.3	2.9	1.9	1.4	0.5	0.0
92.5°	14.4	11.5	14.8	15.8	15.8	15.8	13.9	12.9	13.4	13.4	13.9
95°	89.0	85.1	88.0	84.2	74.1	57.9	38.7	31.1	29.7	28.2	28.7
97.5°	156.4	152.6	154.0	145.4	125.3	92.3	60.8	47.4	45.0	42.1	42.1
100°	222.4	219.6	216.2	203.8	170.8	119.6	78.9	62.2	59.3	55.5	54.5
102.5°	285.6	280.8	273.6	251.6	208.1	139.7	93.8	75.1	72.7	67.4	66.0
105°	335.8	331.5	323.8	289.9	233.9	155.9	105.2	87.1	84.7	78.0	76.5
107.5°	382.2	379.8	360.7	323.4	251.6	168.9	116.7	98.5	94.2	87.5	85.1
110°	418.6	414.7	395.6	345.8	264.0	174.6	127.7	109.1	100.9	95.2	92.3



TEST NUMBER: P286856

CATALOG NUMBER: DWI-WA-15L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	445.3	442.5	413.8	356.4	264.5	178.9	133.9	115.8	105.2	100.5	97.1
115°	458.3	454.0	425.3	357.8	262.6	182.7	138.2	118.6	108.6	103.8	99.0
117.5°	463.0	458.3	419.0	347.8	253.0	180.3	143.0	121.0	110.0	104.3	99.0
120°	447.7	443.4	404.7	330.5	244.4	179.9	142.1	123.4	110.5	102.8	97.1
122.5°	423.3	418.1	380.3	309.5	228.2	172.7	138.2	119.6	108.1	98.5	92.3
125°	389.4	384.6	342.0	278.9	215.3	166.0	135.4	112.9	101.4	91.8	85.6
127.5°	341.5	338.7	304.2	252.1	194.2	154.5	124.8	107.2	92.3	84.7	78.4
130°	292.7	290.8	267.4	223.4	177.5	143.0	117.2	100.0	83.2	76.5	70.8
132.5°	250.7	249.2	226.3	191.3	156.9	127.2	105.2	88.0	76.5	68.4	64.1
135°	211.9	211.4	190.4	166.0	136.8	115.3	93.3	79.4	70.3	61.2	57.9
137.5°	173.2	173.2	162.2	142.5	121.5	98.5	85.1	73.7	63.6	55.0	51.7
140°	144.0	142.1	136.3	117.7	101.9	89.9	73.2	64.1	56.0	49.7	47.4
142.5°	122.0	120.1	110.5	101.4	89.5	76.1	69.4	57.4	49.7	45.0	43.5
145°	104.8	104.3	94.2	90.9	80.4	71.8	59.3	55.0	46.4	41.1	40.2
147.5°	87.1	87.1	84.7	76.1	67.9	61.2	56.9	48.3	44.5	38.3	37.3
150°	73.2	73.2	73.7	67.4	64.1	58.8	50.7	44.5	42.1	36.4	35.4
152.5°	65.1	65.5	62.2	63.6	56.4	51.2	46.9	44.0	38.3	34.4	33.5
155°	61.2	61.7	56.9	54.5	50.7	48.8	45.4	39.7	35.4	33.5	32.0
157.5°	53.1	54.1	54.5	48.8	49.7	44.5	39.7	36.4	34.0	33.0	30.6
160°	46.4	46.9	47.4	48.3	42.6	41.6	40.7	37.3	34.4	32.5	30.1
162.5°	44.5	44.0	42.6	42.6	41.6	39.7	35.4	34.9	34.0	32.0	29.7
165°	43.1	43.5	42.1	37.8	38.7	36.4	35.9	31.6	31.6	31.1	29.7
167.5°	37.8	38.3	38.7	38.3	34.4	35.4	33.0	32.5	29.7	30.6	29.2
170°	33.5	34.0	33.5	34.4	35.4	32.5	31.6	32.0	29.2	30.1	28.7
172.5°	33.5	33.0	32.5	31.1	30.6	32.5	31.6	29.2	29.7	29.2	27.7
175°	32.0	32.5	32.5	32.0	31.1	29.7	28.7	29.2	29.7	27.7	26.3
177.5°	29.2	29.7	29.2	29.7	29.7	30.1	30.1	29.7	27.7	25.8	24.9
180°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4



TEST NUMBER: P286856

CATALOG NUMBER: DWI-WA-15L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	205.2	205.2	205.2	205.2
2.5°	202.3	199.5	197.6	197.1
5°	199.0	193.7	190.9	189.9
7.5°	196.1	188.9	184.6	183.2
10°	193.3	184.2	178.9	177.0
12.5°	189.9	179.9	173.6	171.7
15°	187.5	176.0	169.3	166.9
17.5°	184.6	172.2	165.0	162.6
20°	181.8	168.4	161.2	159.3
22.5°	179.4	165.0	157.9	155.0
25°	176.5	161.7	154.0	151.6
27.5°	173.6	158.3	150.7	148.3
30°	170.8	154.5	147.3	144.9
32.5°	167.4	151.2	144.5	142.5
35°	164.6	147.8	141.6	139.7
37.5°	161.2	144.0	138.2	136.8
40°	157.4	140.6	134.9	133.0
42.5°	153.5	136.8	131.5	129.2
45°	149.2	133.5	127.7	124.8
47.5°	144.9	129.2	122.9	120.1
50°	139.7	124.8	117.7	114.8
52.5°	133.9	119.6	112.4	109.5
55°	128.2	114.3	106.7	103.8
57.5°	122.0	108.1	100.5	97.6
60°	114.8	101.4	94.2	90.9
62.5°	107.2	94.2	87.1	84.2
65°	99.5	87.1	79.9	77.5
67.5°	91.4	78.4	71.8	69.8
70°	81.3	69.8	63.1	61.2
72.5°	70.8	61.2	54.1	53.1
75°	60.3	50.7	45.4	44.5
77.5°	49.3	40.2	36.8	36.4
80°	37.8	30.1	27.7	27.3
82.5°	25.8	20.1	2.4	0.0
85°	14.4	1.4	0.5	0.0
87.5°	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	3.3	0.5	0.0	0.0
95°	25.4	2.9	0.5	0.0
97.5°	42.6	37.3	13.9	0.0
100°	56.4	53.6	52.1	50.2
102.5°	67.0	67.0	67.9	67.4
105°	75.6	78.9	79.9	80.4
107.5°	83.7	89.0	90.9	91.8
110°	90.4	95.7	100.5	100.9



TEST NUMBER: P286856

CATALOG NUMBER: DWI-WA-15L830-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	93.8	101.9	107.2	109.1
115°	95.2	104.8	112.9	115.3
117.5°	95.2	106.2	116.2	118.6
120°	94.2	105.7	117.2	121.0
122.5°	90.4	102.4	116.7	121.0
125°	84.2	97.6	112.4	117.7
127.5°	78.0	91.4	105.7	111.9
130°	71.8	83.7	98.5	103.8
132.5°	64.1	75.6	88.5	93.3
135°	57.4	67.0	78.4	82.8
137.5°	52.6	60.3	69.4	72.7
140°	47.8	53.6	61.7	64.1
142.5°	42.6	49.3	54.1	56.4
145°	39.7	44.0	49.3	50.7
147.5°	37.8	41.6	45.4	46.4
150°	34.9	37.8	41.1	43.1
152.5°	33.0	36.8	38.7	39.2
155°	32.5	33.5	36.8	36.4
157.5°	31.6	33.0	33.5	34.9
160°	29.2	30.6	32.0	33.0
162.5°	28.7	30.6	31.6	30.6
165°	29.2	28.7	29.2	29.2
167.5°	27.7	28.7	27.7	29.7
170°	26.8	26.8	28.2	27.7
172.5°	27.7	27.7	26.3	26.3
175°	27.7	26.8	26.3	27.3
177.5°	23.9	26.3	27.3	27.7
180°	24.4	24.4	24.4	24.4

(END OF REPORT)