

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: P286872

Luminaire Tested: **DWI-WA-50L840-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286872
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-50L840-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM SPECULAR OPTIC, ASYMMETRIC
Light Source: (154) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943.7 lumens
Efficiency: N/A
Efficacy: 119.7 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

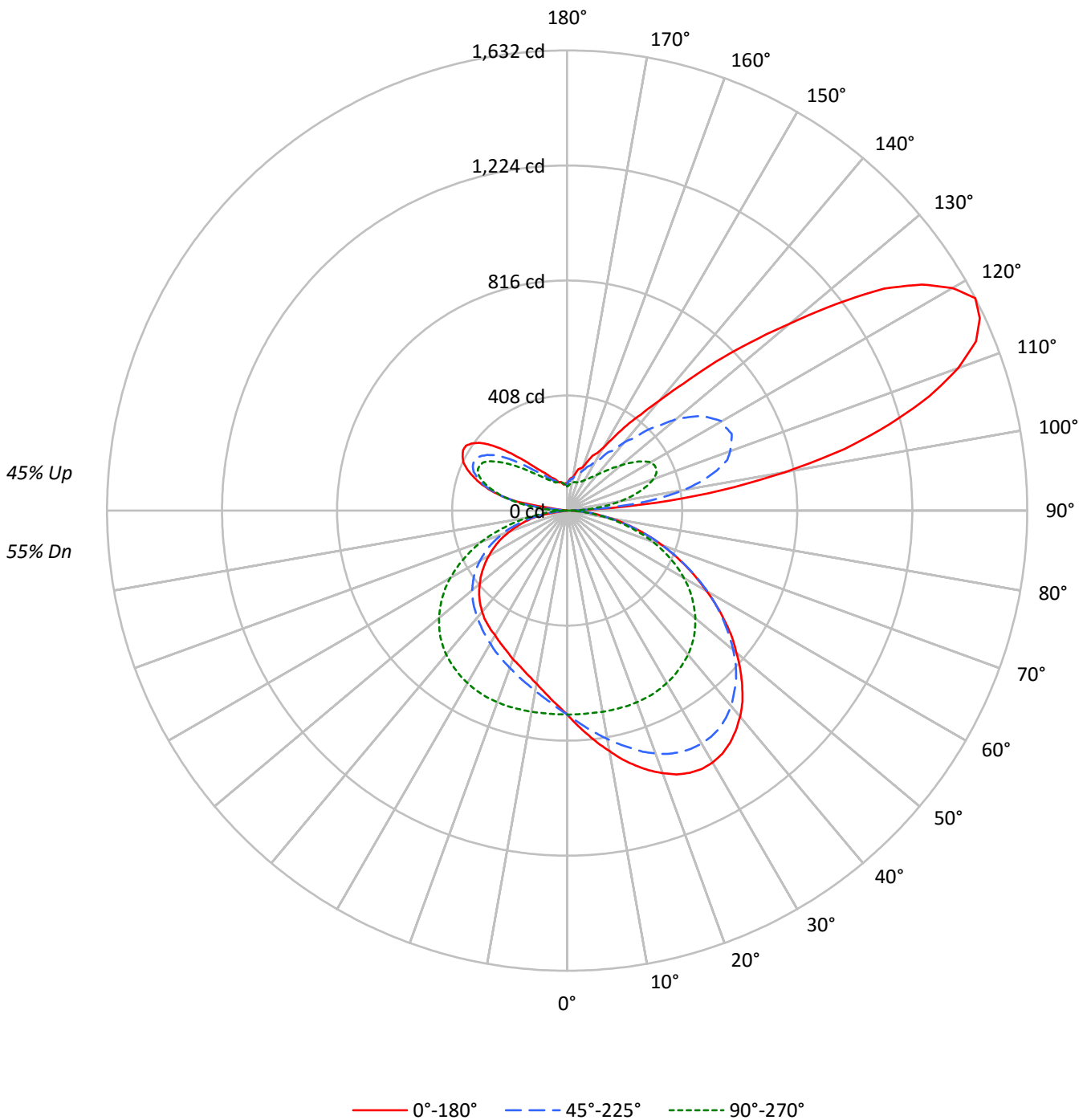
Input Watts (W): 41.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	26	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°	5525	5525	5525
5°	6089	5546	5132
10°	6721	5623	4838
15°	7400	5733	4653
20°	8058	5880	4563
25°	8654	6053	4505
30°	9100	6231	4506
35°	9386	6430	4590
40°	9515	6657	4673
45°	9488	6866	4754
50°	9316	7053	4809
55°	9093	7207	4872
60°	8731	7314	4894
65°	8380	7314	4937
70°	7983	7230	4820
75°	7512	6816	4628
80°	6898	6080	4228
85°	6057	5023	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.4
10°-20°	211.4	4.3
20°-30°	347.9	7.0
30°-40°	454.3	9.2
40°-50°	503.4	10.2
50°-60°	478.6	9.7
60°-70°	382.8	7.7
70°-80°	230.4	4.7
80°-90°	57.3	1.2
90°-100°	145.8	2.9
100°-110°	486.6	9.8
110°-120°	591.7	12.0
120°-130°	473.7	9.6
130°-140°	268.2	5.4
140°-150°	131.3	2.7
150°-160°	67.7	1.4
160°-170°	33.2	0.7
170°-180°	9.7	0.2
0°-30°	629.1	12.7
0°-40°	1083.4	21.9
0°-60°	2065.4	41.8
0°-90°	2735.9	55.3
90°-120°	1224.1	24.8
90°-150°	2097.3	42.4
90°-180°	2208.0	44.7
0°-180°	4943.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	723	723	723	723	723	
5°	794	772	723	683	669	78
15°	936	872	725	620	588	266
25°	1027	946	718	570	534	473
35°	1006	942	689	521	492	628
45°	878	848	636	470	440	676
55°	683	676	541	403	366	610
65°	464	467	405	307	273	459
75°	254	251	231	179	157	270
85°	69	66	57	5	0	74
90°	17	12	0	0	0	16
95°	314	204	101	10	0	348
105°	1183	550	270	278	283	1231
115°	1615	644	349	369	406	1573
125°	1372	585	302	344	415	1210
135°	747	406	204	236	292	588
145°	369	253	142	155	179	237
155°	216	172	113	118	128	99
165°	152	128	104	101	103	42
175°	113	104	93	94	96	11
180°	86	86	86	86	86	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2	723.2
2.5°	758.6	758.6	756.9	755.2	751.8	746.8	741.7	736.6	731.6	726.5	723.2
5°	794.0	794.0	790.6	787.2	780.5	772.0	761.9	753.5	740.0	729.9	723.2
7.5°	831.0	831.0	826.0	819.2	810.8	797.3	783.8	768.7	748.4	733.3	723.2
10°	866.4	866.4	861.4	854.6	841.2	822.6	804.1	782.2	758.6	736.6	724.8
12.5°	903.5	903.5	895.1	886.7	869.8	847.9	824.3	795.6	768.7	738.3	724.8
15°	935.6	935.6	928.8	918.7	898.5	871.5	842.8	807.4	775.4	741.7	724.8
17.5°	965.9	965.9	959.2	945.7	925.4	896.8	861.4	819.2	782.2	743.4	724.8
20°	991.2	991.2	984.4	971.0	949.0	917.0	876.6	832.7	787.2	745.1	723.2
22.5°	1013.1	1011.4	1004.7	989.5	967.6	933.9	891.7	839.5	792.3	745.1	721.5
25°	1026.6	1024.9	1018.2	1004.7	979.4	945.7	900.2	844.5	794.0	745.1	718.1
27.5°	1033.3	1031.6	1026.6	1011.4	987.8	952.4	906.9	849.6	794.0	743.4	713.0
30°	1031.6	1031.6	1024.9	1013.1	989.5	954.1	908.6	849.6	792.3	738.3	706.3
32.5°	1023.2	1021.5	1016.5	1006.4	984.4	950.7	906.9	846.2	788.9	731.6	699.6
35°	1006.4	1006.4	1003.0	992.9	974.3	942.3	896.8	837.8	780.5	721.5	689.4
37.5°	982.8	982.8	981.1	972.6	955.8	925.4	883.3	827.7	768.7	711.4	679.3
40°	954.1	955.8	952.4	945.7	932.2	905.2	866.4	812.5	755.2	697.9	667.5
42.5°	920.4	920.4	917.0	913.6	901.8	876.6	842.8	792.3	738.3	681.0	652.4
45°	878.2	878.2	876.6	874.9	864.8	847.9	815.9	768.7	718.1	662.5	635.5
47.5°	832.7	834.4	832.7	832.7	826.0	810.8	782.2	738.3	694.5	642.2	615.3
50°	783.8	787.2	785.5	787.2	780.5	768.7	745.1	708.0	667.5	618.6	593.4
52.5°	736.6	735.0	733.3	736.6	733.3	723.2	702.9	674.3	635.5	591.7	568.1
55°	682.7	681.0	682.7	686.1	682.7	676.0	660.8	633.8	601.8	563.0	541.1
57.5°	628.8	627.1	628.8	632.1	630.4	627.1	613.6	591.7	566.4	531.0	512.4
60°	571.4	573.1	574.8	576.5	579.9	576.5	563.0	547.8	527.6	497.3	478.7
62.5°	517.5	517.5	520.9	522.6	524.2	520.9	514.1	500.7	487.2	460.2	443.3
65°	463.6	463.6	465.3	466.9	470.3	466.9	461.9	453.5	441.7	419.7	404.6
67.5°	411.3	409.6	411.3	414.7	413.0	413.0	406.3	404.6	394.5	377.6	365.8
70°	357.4	355.7	357.4	357.4	359.1	357.4	355.7	354.0	345.6	337.1	323.7
72.5°	306.8	303.4	305.1	306.8	305.1	305.1	301.7	301.7	296.7	289.9	278.1
75°	254.5	252.9	252.9	252.9	252.9	251.2	246.1	249.5	247.8	242.7	230.9
77.5°	204.0	204.0	205.7	202.3	204.0	198.9	200.6	197.2	198.9	193.9	185.4
80°	156.8	155.1	155.1	155.1	155.1	151.7	150.0	148.3	151.7	146.7	138.2
82.5°	107.9	109.6	107.9	106.2	107.9	107.9	106.2	102.8	104.5	99.5	94.4
85°	69.1	69.1	69.1	65.7	65.7	65.7	67.4	65.7	64.1	60.7	57.3
87.5°	32.0	33.7	33.7	33.7	33.7	32.0	32.0	30.3	28.7	27.0	25.3
90°	16.9	16.9	15.2	15.2	13.5	11.8	10.1	6.7	5.1	1.7	0.0
92.5°	50.6	40.5	52.3	55.6	55.6	55.6	48.9	45.5	47.2	47.2	48.9
95°	313.5	300.1	310.2	296.7	261.3	204.0	136.5	109.6	104.5	99.5	101.1
97.5°	551.2	537.7	542.8	512.4	441.7	325.3	214.1	166.9	158.5	148.3	148.3
100°	783.8	773.7	761.9	718.1	601.8	421.4	278.1	219.1	209.0	195.5	192.2
102.5°	1006.4	989.5	964.2	886.7	733.3	492.2	330.4	264.7	256.2	237.7	232.6
105°	1183.4	1168.2	1141.2	1021.5	824.3	549.5	370.9	306.8	298.4	274.8	269.7
107.5°	1346.9	1338.4	1271.0	1139.5	886.7	595.0	411.3	347.3	332.1	308.5	300.1
110°	1475.0	1461.5	1394.1	1218.8	930.5	615.3	450.1	384.3	355.7	335.5	325.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1569.4	1559.3	1458.1	1255.8	932.2	630.4	472.0	407.9	370.9	354.0	342.2
115°	1614.9	1599.7	1498.6	1260.9	925.4	643.9	487.2	418.1	382.7	365.8	348.9
117.5°	1631.7	1614.9	1476.7	1225.5	891.7	635.5	504.0	426.5	387.7	367.5	348.9
120°	1577.8	1562.6	1426.1	1164.8	861.4	633.8	500.7	434.9	389.4	362.4	342.2
122.5°	1491.8	1473.3	1340.1	1090.6	804.1	608.5	487.2	421.4	381.0	347.3	325.3
125°	1372.2	1355.3	1205.3	982.8	758.6	584.9	477.1	397.8	357.4	323.7	301.7
127.5°	1203.6	1193.5	1072.1	888.4	684.4	544.5	440.0	377.6	325.3	298.4	276.5
130°	1031.6	1024.9	942.3	787.2	625.4	504.0	413.0	352.3	293.3	269.7	249.5
132.5°	883.3	878.2	797.3	674.3	552.9	448.4	370.9	310.2	269.7	241.1	225.9
135°	746.8	745.1	670.9	584.9	482.1	406.3	328.7	279.8	247.8	215.8	204.0
137.5°	610.2	610.2	571.4	502.3	428.2	347.3	300.1	259.6	224.2	193.9	182.1
140°	507.4	500.7	480.4	414.7	359.1	316.9	257.9	225.9	197.2	175.3	166.9
142.5°	429.9	423.1	389.4	357.4	315.2	268.0	244.4	202.3	175.3	158.5	153.4
145°	369.2	367.5	332.1	320.3	283.2	252.9	209.0	193.9	163.5	145.0	141.6
147.5°	306.8	306.8	298.4	268.0	239.4	215.8	200.6	170.3	156.8	134.9	131.5
150°	257.9	257.9	259.6	237.7	225.9	207.3	178.7	156.8	148.3	128.1	124.7
152.5°	229.3	230.9	219.1	224.2	198.9	180.4	165.2	155.1	134.9	121.4	118.0
155°	215.8	217.5	200.6	192.2	178.7	171.9	160.1	139.9	124.7	118.0	112.9
157.5°	187.1	190.5	192.2	171.9	175.3	156.8	139.9	128.1	119.7	116.3	107.9
160°	163.5	165.2	166.9	170.3	150.0	146.7	143.3	131.5	121.4	114.6	106.2
162.5°	156.8	155.1	150.0	150.0	146.7	139.9	124.7	123.1	119.7	112.9	104.5
165°	151.7	153.4	148.3	133.2	136.5	128.1	126.4	111.3	111.3	109.6	104.5
167.5°	133.2	134.9	136.5	134.9	121.4	124.7	116.3	114.6	104.5	107.9	102.8
170°	118.0	119.7	118.0	121.4	124.7	114.6	111.3	112.9	102.8	106.2	101.1
172.5°	118.0	116.3	114.6	109.6	107.9	114.6	111.3	102.8	104.5	102.8	97.8
175°	112.9	114.6	114.6	112.9	109.6	104.5	101.1	102.8	104.5	97.8	92.7
177.5°	102.8	104.5	102.8	104.5	104.5	106.2	106.2	104.5	97.8	91.0	87.7
180°	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	723.2	723.2	723.2	723.2
2.5°	713.0	702.9	696.2	694.5
5°	701.2	682.7	672.6	669.2
7.5°	691.1	665.8	650.7	645.6
10°	681.0	649.0	630.4	623.7
12.5°	669.2	633.8	611.9	605.2
15°	660.8	620.3	596.7	588.3
17.5°	650.7	606.8	581.6	573.1
20°	640.6	593.4	568.1	561.3
22.5°	632.1	581.6	556.3	546.2
25°	622.0	569.8	542.8	534.4
27.5°	611.9	558.0	531.0	522.6
30°	601.8	544.5	519.2	510.8
32.5°	590.0	532.7	509.1	502.3
35°	579.9	520.9	499.0	492.2
37.5°	568.1	507.4	487.2	482.1
40°	554.6	495.6	475.4	468.6
42.5°	541.1	482.1	463.6	455.1
45°	525.9	470.3	450.1	440.0
47.5°	510.8	455.1	433.2	423.1
50°	492.2	440.0	414.7	404.6
52.5°	472.0	421.4	396.1	386.0
55°	451.8	402.9	375.9	365.8
57.5°	429.9	381.0	354.0	343.9
60°	404.6	357.4	332.1	320.3
62.5°	377.6	332.1	306.8	296.7
65°	350.6	306.8	281.5	273.1
67.5°	322.0	276.5	252.9	246.1
70°	286.6	246.1	222.5	215.8
72.5°	249.5	215.8	190.5	187.1
75°	212.4	178.7	160.1	156.8
77.5°	173.6	141.6	129.8	128.1
80°	133.2	106.2	97.8	96.1
82.5°	91.0	70.8	8.4	0.0
85°	50.6	5.1	1.7	0.0
87.5°	5.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	11.8	1.7	0.0	0.0
95°	89.3	10.1	1.7	0.0
97.5°	150.0	131.5	48.9	0.0
100°	198.9	188.8	183.7	177.0
102.5°	236.0	236.0	239.4	237.7
105°	266.3	278.1	281.5	283.2
107.5°	295.0	313.5	320.3	323.7
110°	318.6	337.1	354.0	355.7



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	330.4	359.1	377.6	384.3
115°	335.5	369.2	397.8	406.3
117.5°	335.5	374.2	409.6	418.1
120°	332.1	372.5	413.0	426.5
122.5°	318.6	360.7	411.3	426.5
125°	296.7	343.9	396.1	414.7
127.5°	274.8	322.0	372.5	394.5
130°	252.9	295.0	347.3	365.8
132.5°	225.9	266.3	311.9	328.7
135°	202.3	236.0	276.5	291.6
137.5°	185.4	212.4	244.4	256.2
140°	168.6	188.8	217.5	225.9
142.5°	150.0	173.6	190.5	198.9
145°	139.9	155.1	173.6	178.7
147.5°	133.2	146.7	160.1	163.5
150°	123.1	133.2	145.0	151.7
152.5°	116.3	129.8	136.5	138.2
155°	114.6	118.0	129.8	128.1
157.5°	111.3	116.3	118.0	123.1
160°	102.8	107.9	112.9	116.3
162.5°	101.1	107.9	111.3	107.9
165°	102.8	101.1	102.8	102.8
167.5°	97.8	101.1	97.8	104.5
170°	94.4	94.4	99.5	97.8
172.5°	97.8	97.8	92.7	92.7
175°	97.8	94.4	92.7	96.1
177.5°	84.3	92.7	96.1	97.8
180°	86.0	86.0	86.0	86.0

(END OF REPORT)