

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: LUMARK

Report Number: P143985

Luminaire Tested: **LDRC-5WQ-F01-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143985
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRC-5WQ-F01-E
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2530.7 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

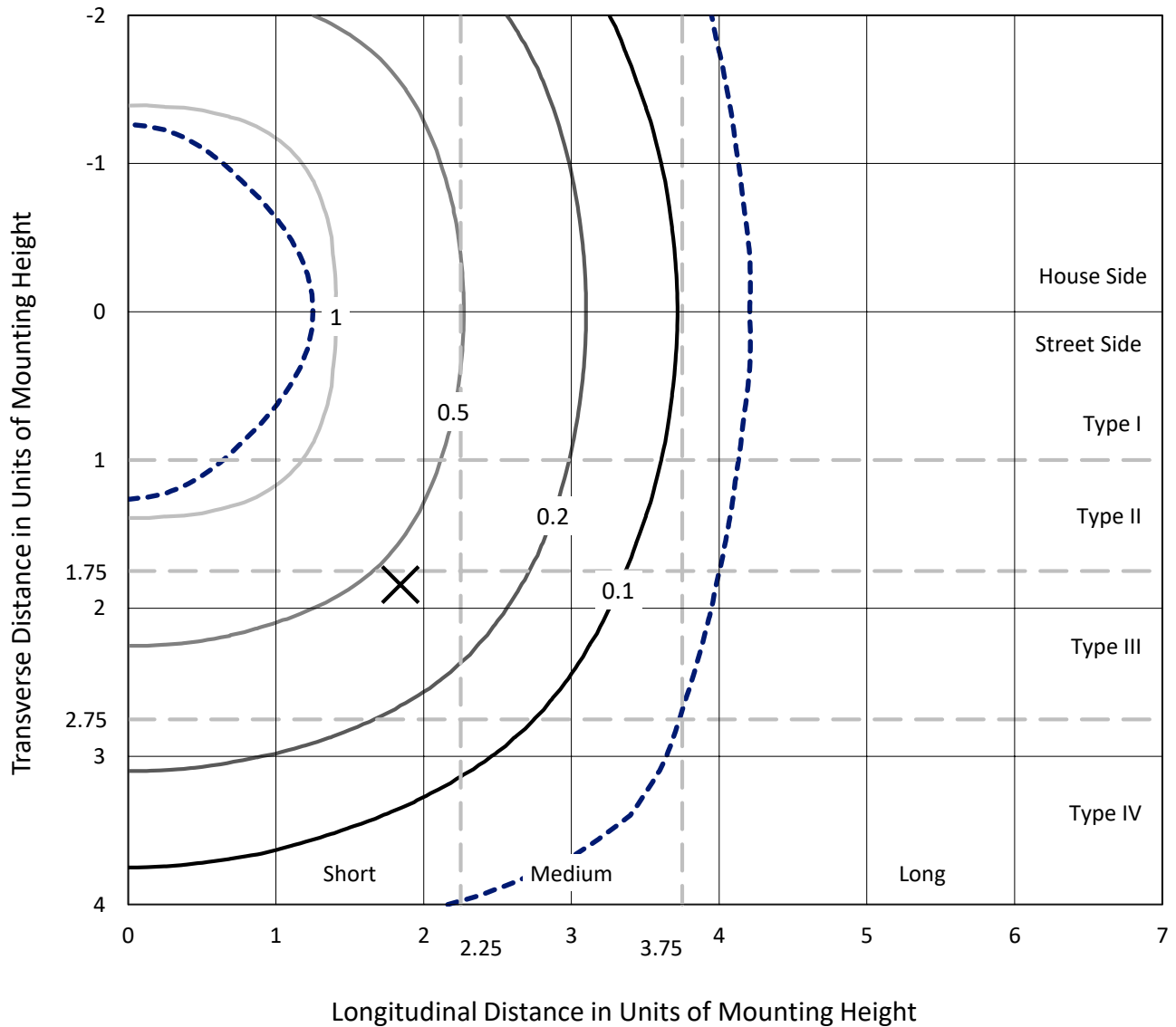
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

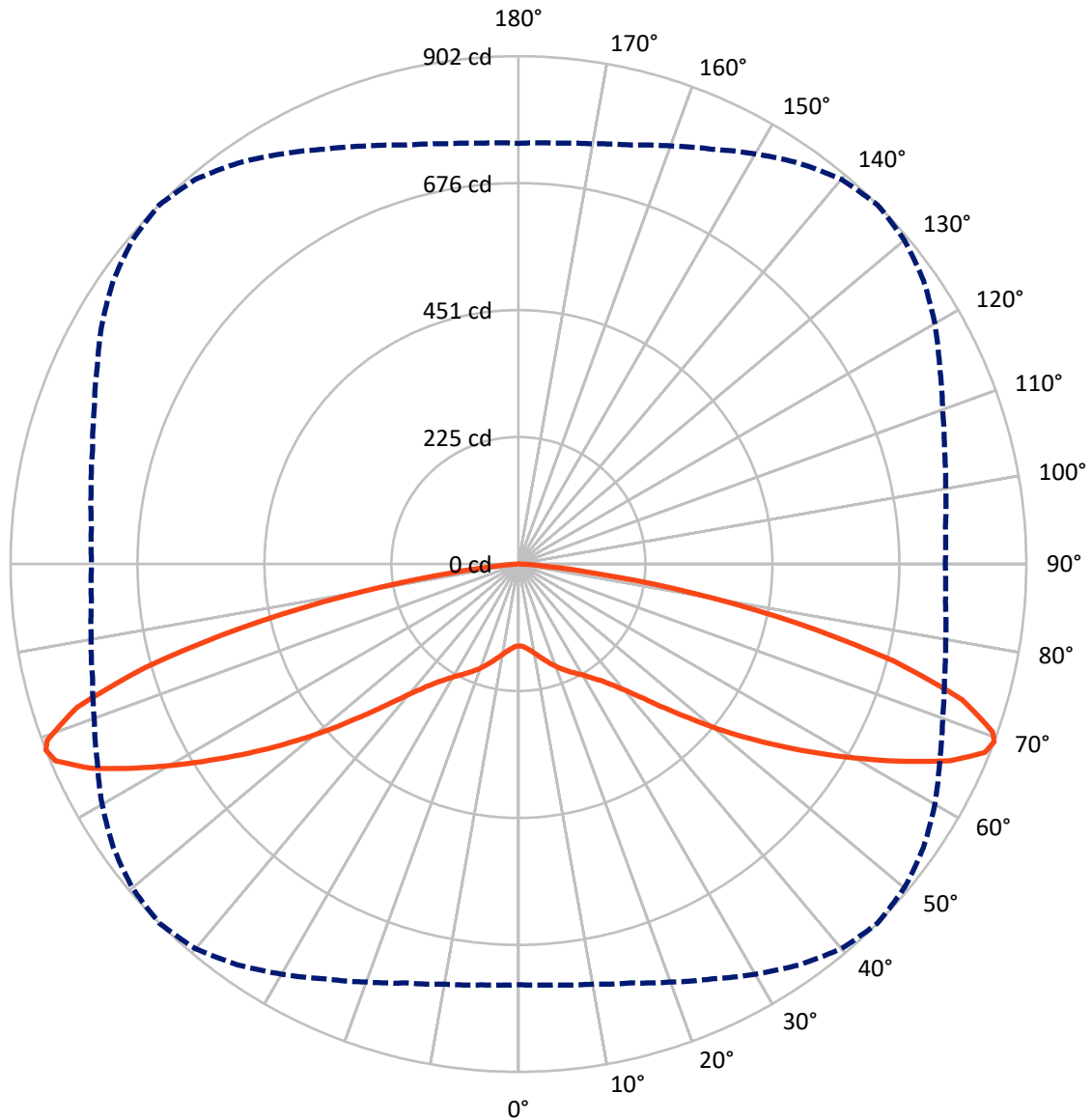
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.4	0.0	1265.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1265.4	0.0	1265.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	2530.7	0.0	2530.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	0.6
10°-20°	50.6	2.0
20°-30°	97.5	3.9
30°-40°	159.7	6.3
40°-50°	277.8	11.0
50°-60°	493.4	19.5
60°-70°	766.0	30.3
70°-80°	610.3	24.1
80°-90°	60.7	2.4
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°-90°	2530.7	100.0
0°-180°	2530.7	100.0



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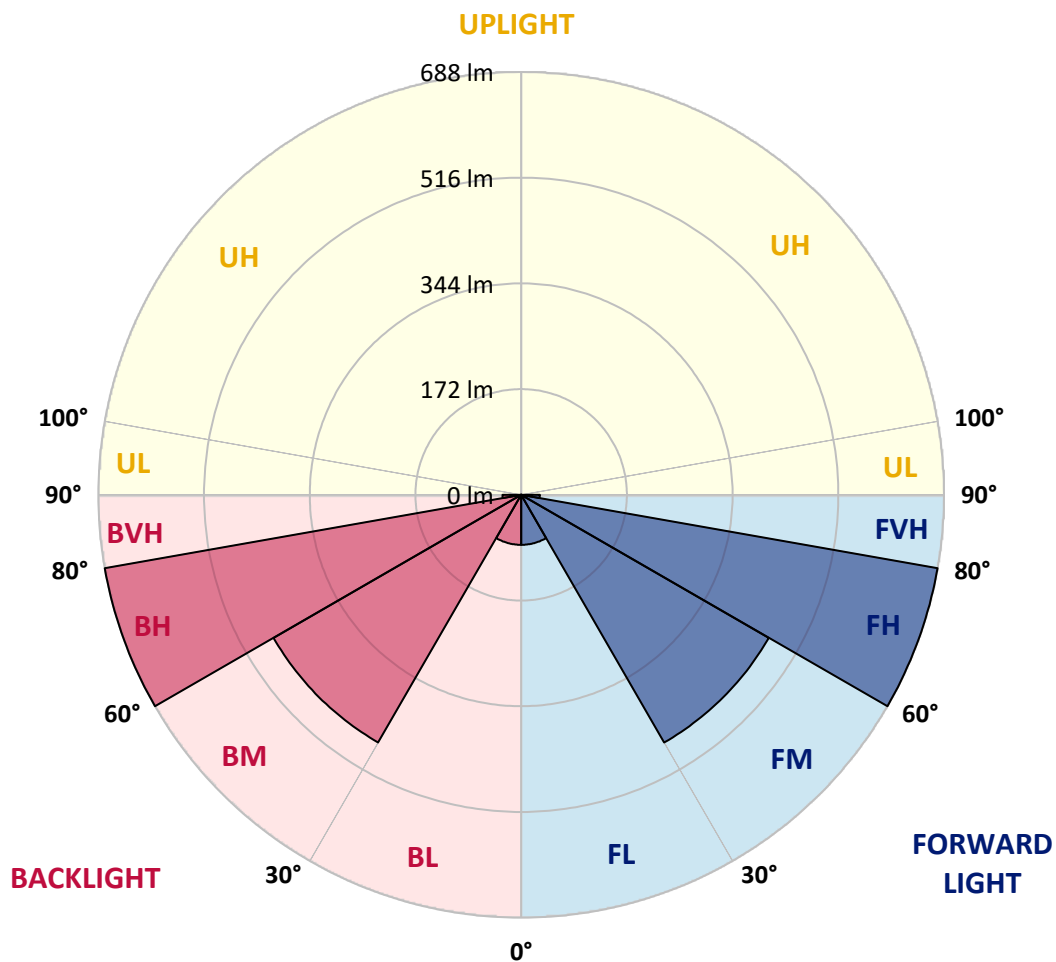
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	81.4	3.2			
FM	(30°-60°)	465.5	18.4			
FH	(60°-80°)	688.2	27.2			G1/1800
FVH	(80°-90°)	30.3	1.2			G1/100
BL	(0°-30°)	81.4	3.2	B0/110		
BM	(30°-60°)	465.5	18.4	B1/1000		
BH	(60°-80°)	688.2	27.2	B2/1000		G1/1800
BVH	(80°-90°)	30.3	1.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5
2.5°	146.6	146.6	146.6	146.4	146.4	146.3	146.4	146.3	146.3	146.3	146.3
5°	150.4	150.1	150.1	149.9	150.2	150.2	149.9	150.1	149.9	150.1	150.1
7.5°	155.2	155.2	155.2	155.0	155.4	155.2	155.0	155.2	155.2	155.0	155.0
10°	161.1	161.3	161.1	161.1	161.6	161.5	161.6	161.6	161.8	161.6	161.6
12.5°	168.1	168.1	168.2	168.4	168.6	168.7	169.2	169.1	169.4	169.1	169.1
15°	176.2	176.5	176.2	176.2	176.7	177.0	177.2	177.2	177.5	177.3	177.0
17.5°	184.8	184.9	184.8	184.6	185.1	185.6	185.7	185.7	186.2	185.9	185.9
20°	193.5	193.7	193.3	193.2	193.8	193.8	194.2	194.3	194.8	195.0	194.5
22.5°	201.6	201.8	201.6	201.4	202.1	202.1	202.6	202.7	203.4	203.2	203.2
25°	209.5	209.5	209.4	209.4	210.0	210.2	210.7	211.0	211.7	211.7	211.7
27.5°	216.8	216.9	216.6	216.5	217.8	218.3	218.6	219.3	219.8	220.1	219.9
30°	225.0	225.0	224.9	225.4	226.2	226.9	227.5	228.5	229.5	229.2	229.2
32.5°	234.8	235.1	234.9	235.6	236.6	237.6	238.4	239.6	240.1	240.9	240.2
35°	247.8	248.5	248.2	248.8	249.6	250.3	252.1	253.3	254.1	254.6	254.3
37.5°	264.2	263.8	264.5	264.7	266.3	267.1	269.3	270.9	272.3	272.8	272.4
40°	284.5	284.0	284.8	285.6	287.8	288.6	291.1	293.6	295.4	296.0	295.7
42.5°	308.7	309.4	310.7	311.9	314.9	317.2	320.0	323.6	325.6	326.4	325.3
45°	340.6	339.5	341.9	344.9	346.6	351.7	356.3	360.1	363.4	364.7	363.4
47.5°	376.9	376.8	379.7	383.4	387.7	392.5	397.9	402.9	408.6	409.0	407.3
50°	417.1	420.4	422.0	425.6	433.6	439.5	446.4	453.9	459.2	460.8	457.8
52.5°	465.4	467.9	468.9	475.0	482.3	489.5	499.3	508.2	514.3	515.0	513.5
55°	517.9	519.9	521.7	529.2	537.1	543.5	555.9	564.7	570.8	573.1	572.1
57.5°	572.3	574.1	576.4	584.5	592.6	601.6	613.4	623.6	630.7	635.0	633.8
60°	632.5	632.5	637.8	645.9	652.5	663.2	675.4	687.3	695.1	701.9	700.0
62.5°	695.9	697.7	702.9	709.5	716.4	726.3	740.2	754.4	766.3	771.4	771.2
65°	744.0	747.3	754.0	761.6	773.2	784.9	802.4	820.1	834.4	841.9	841.9
67.5°	758.0	760.1	768.6	780.1	796.8	815.5	839.2	863.8	883.5	893.2	887.1
69°	746.8	749.9	757.3	769.9	789.7	812.5	840.7	868.6	891.4	901.5	894.4
70°	733.7	737.2	744.6	757.0	777.5	801.7	830.0	860.0	884.5	893.1	885.0
72.5°	680.6	684.9	690.1	700.9	719.4	742.1	767.6	794.0	817.4	824.2	814.1
75°	589.9	590.7	593.4	601.3	607.9	624.1	645.7	666.7	684.4	688.3	677.6
77.5°	417.6	413.1	408.6	415.4	420.7	441.5	464.9	482.1	500.6	506.2	495.3
80°	183.1	181.5	187.7	196.6	219.9	233.8	256.7	281.3	297.0	315.4	295.7
82.5°	36.2	38.1	44.1	54.5	67.2	84.5	99.6	116.6	131.9	138.9	131.8
85°	14.7	16.0	18.2	20.3	21.8	24.4	28.7	35.7	39.3	39.8	37.8
87.5°	6.1	7.1	9.6	11.4	11.6	11.1	11.4	11.7	9.6	7.8	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5
2.5°	146.3	146.4	146.3	146.4	146.3	146.3	146.4	146.3
5°	149.9	150.1	149.9	149.8	149.6	149.8	149.8	149.8
7.5°	155.0	154.9	154.7	154.7	154.5	154.4	154.7	154.7
10°	161.3	161.1	160.8	160.8	160.6	160.6	160.6	160.6
12.5°	168.9	168.4	168.2	167.7	167.6	167.4	167.4	167.6
15°	176.8	176.3	176.2	175.3	175.3	175.2	175.2	175.2
17.5°	185.2	184.8	184.1	184.1	183.6	183.3	183.4	183.1
20°	193.8	193.2	192.8	192.7	192.0	192.0	192.0	191.9
22.5°	202.3	201.8	201.3	200.6	199.9	199.8	199.8	199.6
25°	210.8	210.0	209.0	208.4	207.7	207.2	207.2	207.2
27.5°	219.4	218.4	216.9	216.1	215.1	214.6	214.6	214.5
30°	228.5	227.3	226.0	224.9	223.6	223.1	222.9	222.6
32.5°	239.4	238.2	236.9	235.3	234.0	233.1	233.1	232.6
35°	253.3	252.0	251.0	248.8	247.2	245.8	246.0	246.3
37.5°	271.4	269.8	269.0	266.3	264.2	262.8	262.8	262.7
40°	294.5	292.9	291.1	288.6	286.0	284.1	283.7	283.7
42.5°	323.9	322.5	320.0	316.5	313.4	311.4	309.7	309.9
45°	360.8	358.9	355.5	351.2	347.4	344.6	342.3	342.3
47.5°	405.5	401.7	396.9	393.1	386.7	382.4	380.7	380.4
50°	456.5	449.4	443.5	438.0	431.3	426.8	424.3	423.7
52.5°	510.0	502.6	495.1	488.1	479.8	475.2	471.2	470.9
55°	568.1	558.7	549.3	542.4	532.6	527.8	523.9	521.6
57.5°	627.4	616.8	610.1	600.2	589.9	586.5	582.7	579.8
60°	694.1	682.5	673.6	663.2	656.6	649.2	645.6	643.4
62.5°	762.3	751.6	740.2	730.3	721.0	715.9	710.9	708.5
65°	831.6	814.0	800.4	786.7	775.8	766.6	758.8	757.8
67.5°	874.2	851.9	829.3	809.3	793.3	780.3	772.4	769.6
69°	877.7	853.4	825.2	801.3	782.8	770.2	760.8	757.8
70°	868.1	843.7	814.0	788.2	769.1	755.4	747.6	742.6
72.5°	798.1	776.7	748.1	722.7	705.3	689.3	681.6	679.6
75°	658.4	635.7	609.4	597.2	585.1	575.1	569.8	569.3
77.5°	467.6	444.3	424.3	408.3	395.3	388.8	390.3	384.9
80°	267.6	237.3	213.2	199.0	179.6	168.1	155.0	164.4
82.5°	115.1	93.0	70.8	57.6	43.9	34.8	28.7	26.7
85°	32.2	26.3	22.0	20.1	18.2	16.2	13.7	12.7
87.5°	10.9	10.4	9.2	9.2	8.4	7.1	5.0	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)